U.S. Department
of Transportation
United States
Coast Guard

CONTINGENCY PREPAREDNESS PLANNING MANUAL, VOLUME II

PERSONNEL AND EQUIPMENT REQUIREMENTS

COMDTINST M3010.12B

U.S. Department of Transportation
United States Coast Guard

Commandant (G-REP)
United States Coast Guard

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COMDTINST M3010.12B

COMMANDANT INSTRUCTION M3010.12B

APR 22 1993

Subj: Contingency Preparedness Planning Manual, Vol. II; Personnel and Equipment Requirements

Ref: (a) COMDTINST M5312.11 (series), Staffing Standards Manual
(b) COMDTINST M3010-11 (series), Readiness Planning Manual, Vol I; Planning Systems
(c) JCS Pub 1-03.16; (Joint Reporting Structure), Vol II (Joint Reports), Part 11 (Joint Operation Planning System) (NOTAL)

1. PURPOSE. To provide operational commanders with service headquarters deliberate planning policy and guidance for developing personnel and equipment requirements for contingency operation planning.

2. DIRECTIVES AFFECTED. Coast Guard Readiness Planning Manual, Volume II, COMDTINST M3010.12A, is canceled.

3. DISCUSSION.

a. This manual provides planning factors to assist operational commanders in identifying personnel requirements, beyond programmed resources, for contingency operations. Plans developed using these force elements become the basis for the Contingency Personnel Allowance List (CPAL). For planning purposes the personnel capability, at the OPFAC unit level, to respond to a contingency is the combination of the unit's Personnel Allowance List and CPAL.

b. This manual is used to catalogue contingency billets; it does not address sourcing of bodies to actually fill force elements. It should be used with references (a), (b) and (c), and the reference documents cited in each chapter. Readiness related acronyms, abbreviations and definitions are contained in reference (b).

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4. SUMMARY OF CHANGES.

a. This manual is a complete rewrite of Readiness Planning Manual Volume II, Personnel and Equipment. Force element usage now includes responses to a broad range of defense and non-defense contingencies. Headquarters program managers have reviewed program specific force elements, updated them for the post cold war scenarios, and incorporated the lessons learned from Desert Shield/Storm, Hurricane Andrew, and AMIO operations.

b. Descriptions of existing units, such as cutters, air stations, shore units, and Port Security Units (PSU), contained in the previous edition of the manual have been dropped. These units represent a current capability, and as such, will be described in the next edition of the CG Capabilities Manual.

c. The Logistics Support and Mobilization Plan (LSMP), previously prepared by districts, areas, and MLCs, has been replaced with a Manpower Mobilization and Support Plan, which will be required from the areas and MLCs.

d. Reserve specific force elements, contained in Chapter 6 of the previous manual, have been deleted. All reservists, with the exception of PSUs, are fully integrated into an active duty unit or force element at mobilization.

5. ACTION.

a. Commandant (G-REP) will:

(1) Coordinate with the appropriate Headquarters Planning Coordinators (HQPC) for a bi-annual review and, as necessary, update of the standard force elements.

(2) Provide appropriate commanders with Worldwide Military Command and Control System (WWMCCS) computer printouts discussed in this manual.

b. Area, district and unit commanders shall apply the policy and guidance contained in this manual when preparing contingency and supporting plans. All lists with force element Unit Type Codes (UTCs) should be reviewed to ensure that the correct codes are used.

c. All commands and program managers are encouraged to recommend changes or additions to this manual via the chain of command to Commandant (G-REP).

R. E. Kramek

ROBERT E. KRAMEK
Chief of Staff

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(2) TUCHA Data Element Descriptions
(3) Detailed Equipment List
(4) Equipment Summary Tables

Acronyms

CHAPTER 1. INTRODUCTION

A. General.

1. This volume of the Contingency Preparedness Planning Manual provides Coast Guard commanders with service headquarters policy and procedures for determining force requirements for contingency plans. Force lists are developed using staffing standards and/or force elements. Personnel requirements can also be expressed using rank, rate, and qualification codes or experience indicators. Force elements identify various groupings of personnel and equipment required during contingencies ranging from a natural disaster to war. Standard force elements incorporate Coast Guard policy and guidance for determining what will be needed to accomplish required tasking.

2. Key to the process of successful and useful operational planning is a large dose of reality. Standard force elements and planning factors for their application need to reflect how the Coast Guard will actually employ forces to respond to various contingencies. Build into your plans planning factors that make sense and share them with your chain of command and the rest of the service through COMDT (G-REP) after coordination with the program managers. The standard force elements described in this manual may not include a particular combination of forces needed by an operational commander to accomplish specific missions or tasks. Therefore, operational commanders may develop unique force elements or modify planning factors to meet operational needs. Personnel and equipment requirements supported by non-standard force elements shall be documented and forwarded for review to COMDT (G-REP) via the chain of command.

3. Chapter 5, contains equipment descriptions which summarize standard and optional equipment requirements associated with each force element. Use it as a guide to prepare the logistics annex of the operations plan.

4. Planning factors in this manual are for planning purposes only, not strict operational doctrine. If employment differs during a contingency, identify recommendations for the application of these planning factors, via the chain of command, to G-REP. E.mail address is G-REP/G-RPOST.

B. Force Elements.

1. Force elements include all Coast Guard cutters and squadrons, aircraft, and augmentation forces. Enclosure (1) is a summary listing that identifies the Coast Guard Headquarters Planning Coordinator (HQPC) responsible for each force element.

2. The standard force elements in this manual are building blocks for developing contingency plans. They have been registered by Commandant (G-REP) in the Joint Operation Planning and Execution System (JOPES). The information in JOPES is directly accessible to those commands with a Worldwide Military Command and Control System (WWMCCS) terminal and is updated quarterly by the Joint Chiefs of Staff.

C. Force Element Descriptions. Each force element description contains the following types of information, as applicable:

1. Force Element. Official long title (31 characters desired, 55 max).

2. Reference Documents. Additional references not cited at the beginning of the chapter that specifically apply to that force element.

3. Duties. A brief summary of the activities normally performed by the force element are identified.

4. Personnel Requirements.

a. Personnel requirements are identified including rank, rate and special qualifications.

b. Qualifications common to all personnel are not repeated. For example, all are physically qualified, possess a valid I.D. card, and maintain a full seabag.

c. Generally, a preferred rating is identified for an enlisted billet when rating qualifications are the primary factor for determining team members. This will help personnel managers maintain rating pyramids and organizational structure.

5. Planning Codes. Planning codes are identified for use in force lists and for identifying JOPES data. Refer to enclosure (1) for a summary of Coast Guard force elements and to enclosure (2) for a description of the codes.

6. Planning Factors.

a. Planning factors and assumptions are described in paragraph 3 for cutters related force elements and paragraph 5 for the remaining force element. These planning factors provide guidance for determining the number of a particular force element required to support specific tasks.

b. Full Mobilization workweek planning factors. The planning factors in this paragraph refer to a full mobilization workweek. The standard workweek does not change for partial or selective mobilization for military operations, or for the involuntary call-up of reservists for domestic emergencies. IAW the CG Staffing Standards Manual, COMDTINST M5312.11A, and DOD policy the following policies apply:

(1) Mobilization workweeks are established to provide increased capability with assigned forces.

(2) During mobilization, no allowances are made for leave or holidays.

(3) Workweeks remain unchanged for vessels afloat, continuous watch workweeks, 68 hour duty standing workweeks, and firefighter workweeks, except that no allowances are made for leave and holidays.

(4) During the first 2 months of mobilization the standard 5 days/week, 8 hours/day, 40 hour work week becomes a 6 days/week, 10 hours/day, 60 hour work week.

(5) If mobilization continues past the first 2 months the work week is reduced to 6 days/week, 8 hours/day, for a 48 hour week.

c. When planning for a continuous 24-hour watch, stood in 8 hour shifts, with a normal 40 hour pre-full-mobilization work week, use a factor of 4.2 people/teams. Under a full mobilization scenario, with a 48 hour work week, the multiplier is 3.5.

d. During non-mobilization domestic emergencies consideration should be given to documenting procedures for obtaining authorization for civilian overtime, which may be needed to extend the workweek in support of the operational mission.

e. All planning factors and subsequent algorithms in this manual attempt to logically standardize the Coast Guard determination of force requirements. Departures from the planning factors are expected and acceptable when justification is documented.

7. Equipment requirements.

a. General equipment category descriptions are found in Chapter 5, with a detailed table of equipment in enclosure (3). Equipment requirements are described in the listing for each force element, with a sample table in enclosure (4).

b. For planning purposes, assume that vehicles and small boats will be out of service for maintenance 20% of the time. Therefore, assign a spare for every five operational vehicles and boats required by a plan. The following table can be used to derive the number of relief vehicles/boats required.

RELIEF BOATS/VEHICLES

NUMBER OF OPERATIONALLY ASSIGNED BOATS/VEHICLES

	0-7	8-12	13-17	18-22	(N*5 +- 2)
Relief Boats/ Vehicles	1	2	3	4	N

8. Mobility and Deployment. As appropriate, transportation modes for personnel and equipment are identified.

D. Using Force Elements.

1. Force elements and their associated planning factors are used to develop force requirements and to update force lists.

2. Force elements can be used in planning to:

a. More fully describe an existing capability.

b. Identify and assist in resolving shortfalls.

c. Identify training requirements.

3. Force elements can be used during operations to describe and tailor response to fit specific requirements.

E. Force List Development.

1. The Commandant apportions forces for planning to the areas, and to headquarters units. The Area Commanders shall apportion forces for planning to districts.

2. Area, district, and subordinate commanders identify the missions and tasks required by their contingency specific concept(s) of operations using their apportioned forces. The planning factors in this manual are then applied to the required missions and tasks to refine force requirements and detail overages or shortfalls.

3. Planned operations, as well as the logistic and administrative support envisioned in an operation plan, shall be based on current capabilities (i.e., structured strength including apportioned forces). Requirements that can not be supported by the current capabilities should be identified within completed plans which justify requirements and clearly document shortfalls.

Note: The existence of an unresolved shortfall cannot be used as a justification for unconstrained planning. The concept of operations in the basic plan must be amended to reflect capabilities available within force levels apportioned for planning. The effects of these shortfalls, however, should be reflected in the plan summary as well as other appropriate places throughout the plan.

4. Shortfalls that remain after plan approval shall be identified in a Resource Change Proposal (RCP) for resolution through the Planning, Programming and Budgeting System (PPBS) as described in COMDTINST M16010.1 (series), Planning and Programming Manual.

F. Force Lists. Most Coast Guard forces described in this manual do not deploy. However, there are some Coast Guard forces, such as PSUs and deployable WPB squadrons, which are apportioned to CINC OPLANS and rely on strategic lift. These require an accurate and up to date description of their equipment transportation requirements. This information shall be provided by the Area Commander to Commandant (G-REP) for inclusion in a WWMCCS database. This information is used to produce several reports useful to DoD planners such as: Time-Phased Force Deployment Data (TPFDD), Time-Phased Transportation Requirements List (TPTRL), and others available in the WWMCCS ADP system. Data elements are described in JCS Pub 1-03.16 (formerly JCS Pub 6, Vol. II, Part 11).

CHAPTER 2. AFLOAT RELATED FORCE ELEMENTS

A. Introduction.

1. This chapter contains descriptions of cutter augmentation teams and other related force elements developed by Commandant (G-OCU). Refer to the Personnel Allowance List (PAL) for specific unit billet allowances and qualification requirements. Development of cutter manning levels is driven by each unit's Required Operational Capability (ROC) and Projected Operational Environment (POE) statement. Specific ROC and POEs have/are being promulgated as COMDTINST C3501 (series) for each unit type. If there is a conflict between the matrix references of COMDTINST C3501.4 (series) and the ROC and POEs of COMDTINST C3501 (series), the latter will take precedence.

2. This chapter identifies augmentation details for each class of cutters. Qualifications described are determined by ship functional duties, billet levels and from guidance in appropriate reference documents.

3. As a general rule, an augmentation detail will be assigned if a cutter is committed to perform a special mission where a major portion of the ship's crew will be standing watch for an extended period of time (e.g., the Bridge and CIC watchstanders are in a port and starboard rotation, even though the engineers may be on a one in three watch schedule). For purposes of this manual this is called Condition III "type" steaming because of its similarity, in practice, to being at General Quarters for combat in Condition III steaming. Specific criterion for augmentation is provided by cutter class in the respective Force Elements delineated in paragraphs to follow.

4. Cutter augmentation teams consist of trained people. They do not bring any equipment with them. The receiving vessel must provide berthing space, emergency escape breathing devices, liferafts, immersion/survival suits, and personnel flotation devices to support the augmentation team.

5. Cutter logistics and sustainment data has been developed and includes requirements for ammunition, POL, provisions, spare parts and other supply class categories as appropriate. This data is included in the Logistics Factors File (LFF) of the JOPES software in WWMCCS. NBC/CBR individual equipment is primarily intended for units that may deploy OCONUS. CBR (chemical, biological, and radiological) Operations is the term used within DOD to identify tactical equipment and procedures used in-theater. NBC (nuclear, biological, and chemical) defense refers to equipment and procedures used for non-offensive operations. COMDTINST M8071.1 (series), Coast Guard Radiac Program Management, contains policy and procedures for management of Navy-owned radiac equipment. COMDT (G-ENE), Ship's Survivability Branch, is the pertinent program manager.

6. Cutters, boats, and squardons are apportioned, for planning purposes, as follows:
AREAS - All cutters greater than 180 feet in length, including 180 foot WMECs, and all WPB squardons.
DISRTICTS - 180 foot WLBs, 140 foot WTGBs, 110 and 82 foot PBs.
PORTS - Boats 65 feet in length and smaller.

B. Reference Documents. These references are applicable to most cutters.

1. COMDTINST M5440.2 (series), Operating Facilities of the U.S. Coast Guard
2. COMDTINST M5411.5 (series), Register of Cutters of the U.S. Coast Guard
3. COMDTINST 3501.26 (series), Coast Guard Mission Areas and ROC/POE
4. COMDTINST C3501.4 (series), Assignment of Primary and Secondary Naval Warfare and Coast Guard Missions for SORTS
5. COMDTINST M3502.3 (series), Unit Training Manual Afloat, Vols. I thru VI
6. COMDTINST M3502.4 (series), Cutter Training and Qualifications Manual
7. COMDTINST M1414.8 (series), Enlisted Qualifications Manual
8. COMDTINST M1500.10 (series), Training and Education Manual
9. COMDTINST M1001.27 (series), Reserve Administration and Training Manual
10. COMDTINST M1000.6 (series), Personnel Manual; Chapter 6, Qualification
11. NWP 11-1 (series), Characteristics and Capabilities of U.S. Navy Ships
12. Air Capable Amphibious Aviation and Aviation Ships (NAEC-ENG)
13. OPNAVINST C3501.2 (series), Naval Warfare Mission Areas and ROC/POE Statements
14. COMDTINST C3501.4 (series), Status of Resources and Training Decision Aids (formerly known as Readiness Assessment Decision Aids)
15. COMDTINST M16120.6 (series), National Search and Rescue Manual, Vols. I and II
16. COMDTINST M16130.2 (series), CG Addendum to the National search and Rescue Manual
17. COMDTINST M16114.1 (series), Boats of the U.S. Coast Guard
18. COMDTINST M10470.10 (series), CG Rescue & Survival Systems Manual

C. Force Element: 378 FT WHEC-High Endurance Cutter Augmentation Team.

1. Personnel. 38 persons: 5 officers, 33 enlisted
(UTC: 5ZF20)

a. 5 officers: LCDR, 4 LTJG, Experience Indicator 79
b. 6 enlisted (FT/GM): FT1, FT2, 2 FT3s, 2 GM3
c. 10 enlisted (RDs): RD1, RD2, 8 RD3
d. 1 enlisted (HS): HS1
e. 4 enlisted (QM): 2 QM2, 2 QM3
f. 2 enlisted (RM): 2 RM3
g. 2 enlisted (BM): BM2, BM3
h. 3 enlisted (ET): 3 ET3
i. 1 enlisted (TT): TT3
j. 1 enlisted (YN): YN3
k. 1 enlisted (SK): SK3
l. 2 enlisted (non-rate): 2 SN

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
WHEC 378 AUGDTL	5EF20	DTL	P	38

3. Planning Factors For Force List Development.

a. Add one cutter augmentation detail per ship (UTC: 5EF20) for planned deployments at Condition III like conditions in excess of 14 days and for OCONUS OPLAN commitments.

b. If required by the operational commander, add a Coast Guard helicopter (HH-65A) and associated flight and maintenance personnel. Refer to Chapter 3 for details. An SH-2F Navy modified LAMPS.I helicopter detail (UTC: 3GSLA, 12 persons accompanied by 3.6 short tons/24.4 measurement tons of equipment) may also be deployed on this class cutter.

c. Relief Planning Factor: The vessel requires refueling after 27 days while the augmented ship's company requires relief after 60 days of continuous operation.

4. Equipment Requirements.

a. Additional berthing requirements shall be addressed by COMDT G-OCU.

b. Augmentation personnel. One set of foul weather gear per person will be provided by receiving unit.

c. Helicopter Detail. A helicopter support kit is required if the helicopter is deployed with a cutter (to be provided by parent air station). Refer to Annex E to COMDTINST M3710.2 (series) for shipboard-helicopter support equipment requirements.

5. Mobility and Deployment.

a. Augmentation Detail. The augmentation detail consists of personnel only, who may require Coast Guard or Air Mobility Command (AMC) lift to the cutter's location.

b. Helicopter and Personnel. Refer to Chapter 3 for information on HH-65A helicopter details. Refer to NWP 11-3 (series) and the Navy TUCHA for SH-2F helicopter information.

D. Force Element: 378 FT WHEC-High Endurance Cutter Maintenance Augmentation Team (MAT).

1. Personnel. If a 378 WHEC is planned to operate for extended periods away from normal maintenance centers, then additional augmentation may be needed. * The number of engineering personnel required in the MAT will be determined by support needed. Refer to existing MAT personnel allowances (MKs, EMs and DCs) for team make-up.

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
378 MAT	HMAT1	TM	P	*11

3. Planning Factors For Force List Development.

   a. For planned deployments away from normal support locations for more than 45 days, add one MAT (UTC: HMAT1), adjusting personnel size to meet the needs of the cutter.

   b. Maintenance Augmentation Team members are berthed ashore.

   c. An 11 person MAT can support 2 378 foot cutters.

4. Equipment Requirements. The MAT will bring its own hand tools as part of each individual's seabag. All other tools and parts must be supplied by the cutter or shore support facility.

E. Force Element: 270 FT WMEC-Medium Endurance Cutter Augmentation Team.

1. Personnel. 20 persons: 3 officers, 17 enlisted (UTC: 5ZF30)

   a. 3 officers: LT, 2 LTJG
   b. 4 enlisted (GM/FT): GMC, GM3, 2 FT3
   c. 4 enlisted (RD): RD1, RD2, 2 RD3
   d. 4 enlisted (RM): RM1, RM2, 2 RM3
   e. 1 enlisted (HS): HS2
   f. 2 enlisted (QM): QM2, QM3
   g. 2 enlisted (BM): 2 BM3

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPLD	Persons
WMEC 270 AUGDTL	5ZF30	DTL	P	20

3. Planning Factors For Force List Development.

   a. Add one cutter augmentation detail per ship (UTC: 5ZF30) for planned deployments at Condition III like steaming in excess of 14 days and for OCONUS OPLAN commitments.

   b. If required by the operational commander, add one Coast Guard helicopter (HH-65A) or (HH-60J) (B-Class 270 only) and the supporting flight crew and maintenance personnel. Refer to Chapter 3 for details. An SH-2F Navy modified LAMPS.I helicopter detail (UTC: 3GSLA, 12 persons accompanied by 3.6 short tons/24.4 measurement tons of equipment) may also be deployed on this class cutter.

   c. Relief Planning Factors: The cutter requires refueling after 21 days and the augmented ship's company needs relief after 60 days of continuous operations.

4. Equipment Requirements.

   a. Additional berthing requirements shall be addressed by COMDT G-OCU.

   b. Augmentation personnel. One set of foul weather gear per person will be provided by receiving unit.

   c. Helicopter Detail. A helicopter support kit is required if the helicopter is deployed with a cutter (to be provided by parent Air station). Refer to Annex E to COMDTINST M3710.2 (series) for shipboard-helicopter support equipment requirements.

5. Mobility and Deployment.

   a. Augmentation Detail. The augmentation detail consists of personnel only, who may require Coast Guard or Air Mobility Command (AMC) lift to the cutter's location.

   b. Helicopter and Personnel. Refer to Chapter 3 for information on HH-65A and HH-60J helicopter details. Refer to NWP 11-3 (series) and the Navy TUCHA for SH-2F helicopter information.

F. Force Element: 270 FT WMEC-Medium Endurance Cutter Maintenance Augmentation Team (MAT).

1. Personnel. If a 270 WMEC is planned to operate for more than 45 days away from normal maintenance centers, then additional augmentation may be needed. * The number of engineering personnel required in the MAT will be determined by the type of support needed. Refer to existing MAT personnel allowances (MKs, EMs and DCs) for team make-up.

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
270 MAT	HMAT2	TM	P	*12

3. Planning Factors For Force List Development.

   a. For planned deployments away from normal support locations for more than 45 days, add one MAT (UTC: HMAT2), adjusting personnel size to meet the needs of the cutter.

   b. Personnel assigned to a MAT are berthed ashore.

   c. Due to the cutter's minimal manning a 12 person MAT can support only 1 270 foot WMEC.

4. Equipment Requirements. The MAT will bring its own hand tools as part of each individual's seabag. All other tools and parts must be supplied by the cutter or shore support facility.

G. Force Element: 210 FT WMEC-Medium Endurance Cutter Augmentation Team.

1. Personnel. 11 persons: 2 officers, 9 enlisted (UTC: 5ZF40)

   a. 2 officers: 2 LTJG
   b. 1 enlisted: (GM): GM3
   c. 3 enlisted: (RDs): RD1, 2 RD3
   d. 1 enlisted: (HS): HS1
   e. 2 enlisted: (QM): QM2, QM3
   f. 2 enlisted: (RM): RM2, RM3

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
WMEC 210 AUGDTL	5ZF40	DTL	P	11

3. Planning Factors For Force List Development.

   a. Include one augmentation team for each apportioned cutter (UTC: 5WMEA) planned for deployment at Condition III like steaming in excess of 7 days and for OCONUS OPLAN commitments.

   b. If required by the operational commander, add one Coast Guard helicopter (HH-65A) and the supporting flight crew and maintenance personnel. Refer to Chapter 3 for details. An SH-2F Navy modified LAMPS I helicopter detail (UTC: 3GSLA, 12 persons accompanied by 3.6 short tons/24.4 measurement tons of equipment) may also be deployed on this class cutter.

4. Equipment Requirements.

   a. Additional berthing requirements shall be addressed by COMDT G-OCU.

   b. Augmentation personnel. One set of foul weather gear per person will be provided by receiving unit.

   c. Helicopter Detail. A helicopter support kit is required if the helicopter is deployed with cutter (to be provided by parent Air station). Refer to Annex E to COMDTINST M3710.2 (series) for shipboard-helicopter support equipment requirements.

5. Mobility and Deployment.

   a. Augmentation Detail. The augmentation detail consists of personnel only, who may require Coast Guard or Air Mobility Command (AMC) lift to the cutter's location.

   b. Helicopter and Personnel. Refer to Chapter 3 for information on HH-65A helicopter details. Refer to NWP 11-3 (series) and the Navy TUCHA for SH-2F helicopter information.

H. Force Element: 210 FT WMEC-Medium Endurance Cutter Maintenance Augmentation Team (MAT).

1. Personnel. If a 210 WMEC is planned to operate for more than 21 days away from normal maintenance centers, then additional augmentation may be needed. * The number of engineering personnel required in the MAT will be determined by the type of support needed. Refer to existing MAT personnel allowances (MKs, EMs and DCs) for team make-up.

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
210 MAT	HMAT3	TM	P	*7

3. Planning Factors For Force List Development.

   a. For planned deployments away from normal support locations for more than 21 days, add one MAT (UTC: HMAT3), adjusting personnel size to meet the needs of the cutter.

   b. A 7 person MAT is berthed ashore and can support 2 ships.

4. Equipment Requirements. The MAT will bring its own hand tools as part of each individual's seabag. All other tools and parts must be supplied by the cutter or shore support facility.

I. Force Element: 230/213/205 FT WMEC-Medium Endurance Cutter Augmentation Team.

1. Personnel. 11 persons: 2 officers, 9 enlisted (UTC: MZF40). This is the same augmentation detail for 230, 213, and 205 FT WMECs.

   a. 2 officers: 2 LTJG 70 - Operations - General
   b. 1 enlisted (GM): GM3
   c. 3 enlisted (RD): RD1, 2 RD3
   d. 1 enlisted (HS): HS2
   e. 2 enlisted (QM): QM2, QM3
   f. 2 enlisted (RM): RM2, RM3

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
WMEC 230/213/205 AUGDTL	MZF40	DTL	P	11

3. Planning Factors For Force List Development. The augmentation detail for this class cutter is primarily for reconstitution planning. Augmentation should also be considered for planned deployments at Condition III like steaming in excess of 7 days.

4. Equipment Requirements. One set of foul weather gear per person will be provided by receiving unit.

5. Mobility and Deployment. Augmentation detail consist of personnel only (no equipment), who may require Coast Guard or AMC arranged transportation to the cutter's location.

J. Force Element: 180 FT WMEC-Medium Endurance Cutter Augmentation Team.

1. Personnel. 10 persons: 2 officers, 8 enlisted
(UTC: MZF60)

a. 2 officers: 2 LTJG 70 - Operations - General
b. 3 enlisted (RD): RD1, 2 RD3
c. 1 enlisted (HS): HS1
d. 2 enlisted (QM): QM1, QM3
e. 2 enlisted (RM): RM2, RM3

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
WMEC 180 AUGDTL	MZF60	DTL	P	10

3. Planning Factors For Force List Development. Add one cutter augmentation detail per ship (UTC: MZF60) for planned deployments at Condition III like steaming in excess of 7 days.

4. Equipment Requirements. One set of foul weather gear per person will be provided by receiving unit.

5. Mobility and Deployment. Augmentation detail consists of personnel only (no equipment), who may require Coast Guard or AMC arranged transportation to the cutter's location.

K. Force Element: 110 FT WSES-Surface Effect Ship Augmentation Team.

1. Personnel. 4 persons: 1 officer, 3 enlisted
(UTC: 5VF80)

a. 1 officer: LTJG
b. 1 enlisted (ET): ET2
c. 1 enlisted (GM): GM2
d. 1 enlisted (MK): MK2

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
WSES AUGDTL	5VF80	DTL	P	4

3. Planning Factors For Force List Development.

a. Add one cutter augmentation detail per ship (UTC: 5VF80) for planned deployments at Condition III like steaming in excess of 2 days.

b. When operating away from homeport or a shoreside support facility, for more than 5 days, a support vessel (WHEC, WMEC or WLB) is required to provide fuel, water, and communications support.

4. Equipment Requirements. One set of foul weather gear per person will be provided by receiving unit.

5. Mobility and Deployment. Augmentation detail consists of personnel only (no equipment), who may require Coast Guard or AMC arranged transportation to the cutter's location.

L. Force Element: 110 FT WPB-Patrol Boat Augmentation Team.

1. Personnel. 4 persons: 1 officer, 3 enlisted (UTC: 5VF90)

   a. 1 officer: LTJG
   b. 1 enlisted (MK): MK1 (Qual Code 06072445)
   c. 1 enlisted (GM): GM1 (Qual Code 0109HL)
   d. 1 enlisted (EM): EM1 (Qual Code 1720)

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
WPB 110 AUGDTL	5VF90	DTL	P	4

3. Planning Factors For Force List Development.

   a. Add one cutter augmentation detail per ship (UTC: 5VF90) for planned deployments at Condition III like steaming in excess of 2 days.

   b. When operating away from homeport or a shoreside support facility, one support vessel (WHEC, WHEC or WLB) is required to provide fuel, water and communications support.

4. Equipment Requirements. One set of foul weather gear per person will be provided by receiving unit.

5. Mobility and Deployment. Augmentation detail consists of personnel only (no equipment), who may require Coast Guard or AMC arranged transportation to the cutter's location.

M. Force Element: 82 FT WPB-Patrol Boat Augmentation Team.

1. Personnel. 3 enlisted persons (UTC: 5VF70)

   a. 1 enlisted (ET): ET2
   b. 1 enlisted (GM): GM2
   c. 1 enlisted (BM/QM): BM2 or QM2. BM2 billet assigned if QM2 billet currently assigned and vice versa.

2. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
WPB 82 AUGDTL	5VF70	DTL	P	3

3. Planning Factors For Force List Development.

   a. Add one cutter augmentation detail per ship (UTC: 5VF70) for planned deployments at Condition III like steaming in excess of 1 day.

   b. When operating away from homeport or a shoreside support facility, one support vessel (WHEC, WMEC or WLB) is required to provide fuel, water and communications support.

4. Equipment Requirements. One set of foul weather gear per person will be provided by receiving unit.

5 Mobility and Deployment. Augmentation detail consists of personnel only (no equipment), who may require Coast Guard or AMC arranged transportation to the cutter's location.

N. Force Element: 110 FT Patrol Boat Squadron (4 cutters).

1. Applicable Reference Documents.

   a. COMDTINST 3501.26 (series), Coast Guard Mission Areas and ROC/POE

2. Functional Duties. Refer to 110 FT Patrol Boat ROC and POE Statement.

3. Personnel. 93 persons: 15 officers, 78 enlisted (UTC: 5WPBF)

   a. One 110 FT WPB Squadron staff (5 persons: 2 officers, 3 enlisted, UTC: 5WPBJ).

CO	O-5
ENG	CWO4
Admin	YN2
Electronics	ET3
Weapons	GM1

   b. Four 110 FT WPBs (16 persons each: 2 officers, 14 enlisted, UTC: 5WPBC).

   c. Four AUGDTLs for the 110 FT WPBs (4 persons each: 1 officer, 3 enlisted, UTC: 5VF90).

   d. One Mobile Support Unit (8 persons: 1 officer, 7 enlisted, (UTC: 9MSU2). This force element is described in chapter 4 of this manual. When the squadron is deployed the MSU will combine with the WPB Squadron Staff to form a 13 person staff.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons	
110 FT WPB SQ	5WPBF	SQ	5	93	or
4 each 110 FT WPB	5WPBC	CGC	5	16 X 4	= 64
110 FT WPB SQ STAFF	5WPBJ	STF	P	5	5
4 each WPB 110 AUGDTL	5VF90	DTL	P	4 X 4	= 16
MOBILE SUPPORT UNIT	9MSU2	SU	1	8	8
					93

5. Planning Factors For Force List Development.

   a. Include each apportioned WPB squadron (UTC: 5WPBF) in the appropriate commanders force list. Some squadrons may not be apportioned, but may be constituted by the commander to meet missions and tasks.

   b. Identify the WPBs that are subordinate units to the squadron staff.

c. If the WPB squadron and WPBs are to be land based without local communications support, then one Transportable Communications Center (UTC: 6TCC1) is required.

d. If the WPB squadron and WPBs are to be sea based then a suitable support ship (WHEC, WMEC, WAGB or WLB) is required.

6. Equipment Requirements. Additional equipment requirements for cutters and squadron staffs are described in the Mobile Support Unit force element described in chapter four of this manual.

7. Mobility and Deployment. WPB squadrons are variable self-deployable units for Coast Guard or Naval employment as directed. The squadron staff is not self-deployable; therefore appropriate transportation shall be planned for if the squadron is to deploy. The squadron staff may deploy to support ship or other land based support locations.

CHAPTER 3. AVIATION RELATED FORCE ELEMENTS

A. INTRODUCTION.

1. This chapter contains descriptions of aviation operational and support force elements developed by Commandant (G-OAV). These force elements contain planning factors used in contingency planning. Aircraft that deploy aboard cutters for routine non-contingency operations adhere to a lesser manning standard. Refer to applicable Required Operational Capability (ROC) and Projected Operational Environment (POE) statement or COMDTINST 3501.26 (series) for Coast Guard mission assignments.

2. Each commander developing a plan needs to be familiar with the references listed at the end of this section, and is advised to consult with the local air stations which will be providing support. The policy and guidance contained in this chapter should be used only as general guidance and may not apply to the particular mission, the deployment site, or the air station which will provide the aviation resources. Deviations from these planning factors are authorized, but shall be justified and documented in the plan.

3. Refer to the Personnel Allowance List (PAL) for specific unit billet allowances. Qualifications for aviation personnel are contained in COMDTINST M3710.1 (series). Aviation officer and enlisted personnel are trained only to operate one or occasionally two types of aircraft.

4. Aircraft force elements describe aircraft deployments, and associated flight and maintenance personnel and support equipment. Aviation squadrons or detachments (AVDETs), when developed, shall be located where logistics, messing, berthing, administrative, security, and flight services are provided.

5. Demand for flight services may be met under the following "steady state" scenarios. If a sustained higher level of effort is required, additional aircraft and augmentation personnel will be required.

   a. Condition I: Short Term Deployment (up to 7 days) or deployments to cutters.

      (1) Two flight crew work shifts (approximately 10 hours each). When not flying, flight crews will be off in a crew rest status. Flight crews will not normally perform other duties when in a crew rest status. See Section 2.D. to COMDTINST M3710.1 (series) for maximum utilization factors for flight crews.

      (2) Aircraft is down/not available 8 hours per day. During this period, it is available only for maintenance.

      (3) Assigned aviation enlisted personnel may be interchanged between flight crews and maintenance forces. Work day is 10 hours per day, 7 days a week.

b. Condition II: Intermediate Term Deployment (up to 60 days). Same factors as in paragraphs 3.A.6.a.(1), (2) and (3) above, except work day is 10 hours per day, 6 days a week.

c. Condition III: Long Term Deployment (more than 60 days).

(1) Three flight crew work shifts (approximately 10 hours each). (COMDTINST M3710.1 (series) standards apply.)

(2) Aircraft will be down for maintenance for 8 hours per day.

(3) Same as paragraph 3.A.6.a.(3) above, except work day is 8 hours per day, 6 days a week.

6. Security. If aircraft are deployed to outlying areas where other than basic unarmed security will be required, then refer to Chapter 4 (Security Police Team) when developing security force requirements.

7. Sustainment and Logistics. Planning factors by supply category/sub-category have been developed for sustainment and support of each type aircraft when deployed away from its parent air station. Additional requirements, if any, shall be developed by Commandant (G-EAE). This data is included in the Logistics Factor File (LFF) of the JOPES software in WWMCCS.

B. Reference Documents.

1. COMDTINST M3710.1 (series), Air Operation Manual
2. COMDTINST M5440.2 (series), Operating Facilities of the U.S. Coast Guard
3. COMDTINST 3501.26 (series), Coast Guard Mission Areas and ROC/POE
4. COMDTINST C3501.4 (series), Assignment of Primary and Secondary Naval Warfare and Coast Guard Missions for SORTS
5. COMDTINST M3710.2 (series), Shipboard-Helicopter Operations Procedures
6. NWP 11-3 (series), Characteristics and Capabilities of U.S. Navy Aircraft (including U.S. Coast Guard)
7. COMDTINST M1414.8 (series), Enlisted Qualifications Manual
8. COMDTINST M1500.10 (series), Training and Education Manual
9. Air Capable Amphibious Aviation and Aviation Ships (NAEC-ENG)

C. Force Element: Aviation Engineering Support Team.

1. Applicable Reference Documents.

   a. COMDTINST M13020.1 (series), Aeronautical Engineering Maintenance Management Manual

2. Functional Duties. Aviation engineering support personnel:

   a. Perform scheduled and unscheduled maintenance.
   b. Assist in pre-flight and post-flight inspection of the aircraft.
   c. Perform maintenance in outlying and remote areas if necessary.
   d. Perform required logistic support.
   e. Maintain security posture in outlying and remote areas.
   f. Assist in aircraft servicing.
   g. Augment flight crews as necessary.

3. Personnel. There are two basic types of teams. Each member shall be qualified for the appropriate aircraft.

   a. Aviation Engineering Support Team. 5 enlisted persons (UTC: WCG01)

      (1) One enlisted (AD/AM): E-7/E-8 - Maintenance supervisor.
      (2) One enlisted (AT): E-5/E-6.
      (3) One enlisted (AD): E-5/E-6.
      (4) One enlisted (AE): E-5/E-6.
      (5) One enlisted (AM): E-4 thru E-7.

      Refer to sections in Chapter 2 concerning 378 FT WHECs, 270 FT WMECs, and 210 FT WMECs, which address aircraft capable cutter planning factors.

   b. Aviation Engineering Support Team (Enhanced). 9 enlisted persons (UTC: WCG02)

      (1) One enlisted (AD): E-7/E-8 Maintenance Supervisor.
      (2) One enlisted (AT): E-5/E-6.
      (3) Two enlisted (AD): E-4 thru E-6.
      (4) One enlisted (AE): E-5/E-6.
      (5) Two enlisted (AM): E-4/E-5.
      (6) One enlisted (ASM): E-4/E-5.
      (7) One enlisted (SK): E-5 Aviation supply support.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
AV ENG SUP TM	WCG01	TM	P	5
AV ENG SUP TM E	WCG02	TM	P	9

5. Planning Factors for Force List Development.

   a. Each air station with apportioned operational aircraft shall be augmented with one additional aviation engineering support team per aircraft (UTC: WCG01) to increase maintenance workload from manning (16 hours per day, 5 days a week) to manning (24 hours per day, 6 days a week). Exception: Make every third team at an air station or at ATC an aviation engineering support team ((UTC: WCG02).

   b. If the aircraft is to be deployed, then refer to the applicable aircraft force element description for the various planning factors using the aviation engineering support team (UTC: WCG01) and the enhanced engineering support team (UTC: WCG02). Personnel which deploy with aircraft are sourced from existing personnel resources (PAL) and those additional personnel resources that can fill the requirements created in paragraph 5.a. above.

6. Additional Equipment Requirements. Refer to applicable aircraft force element descriptions.

7. Mobility and Deployment. Aviation engineering support personnel normally consist of personnel and equipment that can deploy with the larger aircraft. The team can be self-administering if an SK is assigned. Refer to the applicable aircraft force element description for transportation requirements.

D. Force Element: HH-3F/HH-60J - Medium Range Helicopter.

1. Applicable Reference Documents.

   a. NWP 11-3 (series), Characteristics and Capabilities of U.S. Navy Aircraft (including U.S. Coast Guard)
   b. COMDTINST M3710.1 (series), Air Operations Manual

2. Functional Duties. Aviation flight crew personnel:

   a. Operate the aircraft.
   b. As directed, conduct operations and logistics missions.

3. Personnel. All aviation personnel will be qualified per COMDTINST M3710.1 (series).

   a. HH-3F flight crew: 5 persons: 2 officers, 3 enlisted (UTC: 3CG03)

      (1) Two officers (O-2 thru O-4). Pilots.
      (2) One enlisted (avionicsman).
      (3) One enlisted (flight mechanic).
      (4) One enlisted (rescue swimmer).

   b. HH-60J flight crew: 4 persons: 2 officers, 2 enlisted (UTC: 3CG06)

      (1) Two officers (O-2 thru O-4). Pilots.
      (2) One enlisted (flight mechanic).
      (3) One enlisted (rescue swimmer).

   c. Condition I Deployment (up to 7 days). Per aircraft deployed: 15 persons for HH-3F, 13 persons for HH-60J:

      (1) Two aviation flight crews (UTC: 3CG03/3CG06). One enlisted should be an AD rating, the other a rescue swimmer.
      (2) One aviation engineering support team (UTC: WCG01)

   d. Condition II Deployment (up to 60 days). Deployments should be made with two or more aircraft. Due to the duration of deployment, additional command and control and other support force elements may be needed, as well. Per aircraft deployed:

      (1) Three aviation flight crews (UTC: 3CG03/3CG06)
      (2) One aviation engineering support team (enhanced) (UTC: WCG02) for the first aircraft, and one aviation engineering support team (UTC: WCG01) for every subsequent aircraft.

   e. Condition III Deployment (over 60 days). In addition to those personnel required for Condition II above, add one additional aviation engineering support team (UTC: WCG01).

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
HH-3F HELO	3EJ30	EQP	E	0
HH-3F FLT CRW	3CG03	CRW	P	5
HH-60J HELO	3EJ35	EQP	E	0
HH-60J FLT CRW	3CG06	CRW	P	4
AV ENG SUP TM	WCG01	TM	1	5
AV ENG SUP TM E	WCG02	TM	1	9

5. Planning Factors for Force List Development.

a. Note that the HH3F class aircraft is scheduled to be removed from service in June, 1994.

b. Include each apportioned aircraft in the commanders force list. If aircraft are to deploy, then modify force list to reflect the deployment.

c. Operating Parameters:

Maximum Endurance	6+00 hours
Average Sortie Duration	1+45 hours
Pre-flight Time Per Sortie	1+00 hours
Post-flight Time Per Sortie	0+30 hours
Turnaround Time*	1+00 hours

*Time required to service aircraft and repair minor discrepancies. Based on above averages, each sortie ties up the airframe for 4+15 to 8+30 hours.

d. Maintenance Workload: 15.8 maintenance manhours (for regular, maintenance) per flight hour (MMH/FH). Long term maintenance (ACM, major component changes and/or catastrophic failures) require more man-hours.

(1) Expected Number of Sorties Per Day.

Sortie = 1.75 hours	Sortie = 6.0 hours
24.0 hours/day	24.0
-8.0 hours/day maintenance	-8.0
16.0 hours/day available	16.0
4.3 hours/sortie	8.5
4 sorties/day	2 sorties/day

(2) Expected Number of Flight Hours Per Day.

@4 sorties/day X 1.75 hours/sortie = 7 flight hours/day
@2 sorties/day X 6.0 hours/sortie = 12 flight hours/day

(3) Expected Maintenance Manhours/day (not including servicing):

7 FH/day X 15.8 MMH/FH = 110.7 manhours/day
12 FH/day X 15.8 MMH/FH = 189.7 manhours/day

From the above calculations, full maintenance could not be accomplished during a Condition I Deployment. However, certain maintenance tasks can be slipped or the aircraft can fly with non-grounding discrepancies for short term deployments.

6. Equipment Requirements. To be provided by providing unit:

a. Aircraft associated equipment for each HH-3F/HH-60J:

Airframe equipped with standard aircraft equipment, per Chapter 5 to COMDTINST M3710.1 (series)
Three night vision goggles
One gyro-stabilized binocular
One night sun
One helicopter support kit for land based operations (Conditions I, II and III) (to be developed by Commandant (G-EAE))
One Forward Looking Infrared Sensor (FLIR).
Camera, 35 mm single lense reflex, film, and accessories for reconnaissance and intelligence missions.

b. Personnel associated equipment per person:

One anti-exposure coverall or dry suit w/mitts when water temps are less than 70°.
One set of foul weather gear suitable to climate.

7. Mobility and Deployment.

a. The HH-3F/HH-60J with flight crew and aviation engineering support are deployable to other Coast Guard air stations or other land based air facilities (i.e., for AVDET). If an isolated aviation detachment is desired, then additional planning factors must be developed.

b. Personnel and equipment should be transported as follows:

(1) Personnel: Air crews deploy with the aircraft. For Condition I, II, and III deployments over 300 NM from parent air station, maintenance personnel will require separate transportation. The HH-60J has seating for the flight crew plus six passengers.

(2) Equipment: The aircraft is a self-deployable major equipment (MEQPT). Follow on logistics support items for the aircraft should be transported by air using Coast Guard or Air Mobility Command (AMC) aircraft transportation and must be pre-identified.

8. HH-3F Example Computations.

a. Situation. The planner requires a helicopter which is capable of proceeding 230 nm offshore (a HH-3F) to maintain an alert posture at a location where no Coast Guard air station is available. The nature of the requirement is such that a readiness posture for 16 hours per day is acceptable. The maximum number of flight hours is needed on a steady state basis to patrol the approaches to the harbor. During times when vessels are approaching or departing the port, continuous aerial surveillance is necessary.

b. Step 1: Select location where airport services, messing, berthing, fuel (JP-4/5), security and support services are available.

c. Step 2: Aircraft, flight crews, and maintenance personnel would be provided from a Coast Guard air station with an operating allowance of these aircraft.

NOTE: If the deployment location is reasonably close to the contributing unit, this operation can function in a detachment mode. More difficult maintenance, as well as administrative and logistics support, would be provided from the parent unit.

d. Step 3: Flight hours available:

Using the historic average (1.75 hours/sortie) the number of sorties per day would be calculated as follows:

Expected sortie duration	1.75	hours
Pre-flight time/sortie	1.0	hours
Post-flight time/sortie	0.5	hours
Turnaround time/sortie	1.0	hours
	4.25	hours

Aircraft available 16 hours/day, divided by 4.3 hours/sortie = 4 sorties per day.

Four sorties per day times 1.75 hours/sortie = 7 flight hours/day.

Available flight hours can be increased by increasing the length of sortie, such as trackline surveillance or orbiting in a location. The maximum sortie duration is 6.0 hours.

Expected sortie duration	6.0 hours
Pre-flight time/sortie	1.0 hours
Post-flight time/sortie	0.5 hours
Turnaround time/sortie	1.0 hours
	8.5 hours

Aircraft available 16 hours/day, divided by 8.5 hours/sortie = < 2 sorties per day. Therefore sortie duration would have to be reduced to 5.5 hours. Two sorties per day times 5.5 hours/sortie = 11 flight hours/day.

e. Since these flight hours are insufficient to perform the desired mission(s) when vessels are entering or leaving port (continuous airborne surveillance required), the planner should plan to add another helicopter to the deployment unit during the relatively short periods of peak demand.

E. Force Element: HH-65A Short-Range Helicopter.

1. Applicable Reference Documents.

a. NWP 11-3 (series), Characteristics and Capabilities of U.S. Navy Aircraft (including the U.S. Coast Guard)
b. COMDTINST M3710.1 (series), Air Operations Manual

2. Functional Duties. Aviation flight crew personnel:

a. Operate the aircraft.
b. As directed, conduct operations and logistics missions.

3. Personnel. All aviation personnel members will be qualified per COMDTINST M3710.1 (series).

a. HH-65A flight crew: 2 officers (UTC: 3CG02)

(1) One officer (O-2 thru O-4). Aircraft commander/pilot.
(2) One officer (O-2 thru O-4). Pilot.
(3) One enlisted (any aviation rate).

b. If a HH-65A helicopter is anticipated to be involved in search and rescue missions, then an additional enlisted (rescue swimmer) is required.

c. Deployment aboard flight deck cutter:

(1) One aircraft deployment: 11 persons.

(a) Two aviation flight crews (UTC: 3CG02) One enlisted should be an AD. If anticipated operations needs do not exceed two sorties per day then one flight crew is acceptable.
(b) One aviation engineering support team (UTC: WCG01). If a long term deployment is anticipated, then substitute with one aviation engineering support team (enhanced)(UTC: WCG02).

(2) Two aircraft deployment (typical polar class deployment). 15 persons. Per two aircraft deployed:

(a) Two aviation flight crews (UTC: 3CG02)
(b) One aviation engineering support team (enhanced) (UTC: WCG02)

d. Deployments to other land based air facilities.

(1) Condition I Deployment (up to 7 days). Per aircraft deployed:

(a) Two aviation flight crews (UTC: 3CG02)

(b) One aviation engineering support team (UTC: WCG01)

(2) Condition II Deployment (up to 60 days). Deployments should be made with two or more aircraft. Due to the duration of deployment, additional command and control, and other support force elements from Chapter 4 may be needed, as well. Per aircraft deployed:

(a) Three aviation flight crews (UTC: 3CG02)
(b) One aviation engineering support team (enhanced) (UTC: WCG02) for the first aircraft, and one aviation engineering support team (UTC: WCG01) for every subsequent aircraft.

(3) Condition III Deployment (over 60 days). In addition to those personnel required for Condition II above, add one additional aviation engineering support team (UTC: WCG01).

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
HH-65A HELO	3EARX	EQP	5	0
HH-65A FLT CRW	3CG02	CRW	P	3
AV ENG SUP TM	WCG01	TM	1	5
AV ENG SUP TM E	WCG02	TM	1	9

5. Planning Factors for Force List Development.

a. Include each apportioned aircraft in the commanders force list.

b. Operating Parameters:

Maximum Endurance	3+00	hours
Average Sortie Duration	1+30	hours
Pre-flight Time Per Sortie	0+45	hours
Post-flight Time Per Sortie	0+30	hours
Turnaround Time*	1+00	hours

*Time required to service aircraft and repair minor discrepancies.

Based on the above averages each sortie ties up the airframe from 3+45 to 5+15 hours.

Maintenance Workload: 11.3 MMH/FH (includes shop maintenance).

(1) Expected Number of Sorties Per Day:

Sortie = 1.5 hours	Sortie = 3.0 hours
24.0 hours/day	24.0
-8.0 hours/day maintenance	-8.0
16.0 hours/day available	16.0
3.8 hours/sortie	5.3
4 sorties/day	3 sorties/day

(2) Expected Number of Flight Hours Per Day:

@4 sorties/day X 1.5 hours/sortie = 6 flight hours/day
@3 sorties/day X 3.0 hours/sortie = 9 flight hours/day

(3) Expected Maintenance Manhours/day (not including servicing):

6 FH/day X 11.3 MMH/FH = 67.7 manhours/day
9 FH/day X 11.3 MMH/FH = 101.5 manhours/day

6. Equipment Requirements.

a. Aircraft associated equipment for each HH-65A:

Airframe equipped with standard aircraft equipment, per Chapter 5 to COMDTINST M3710.1 (series).
Two night vision goggles.
One gyro-stabilized binocular.
Camera, 35 mm single lense reflex, film, and accessories for reconnaissance and intelligence missions.

Helicopter support kits (HSK):
One standard HSK for single aircraft deployments
One standard HSK for 2 helicopter deployments to polar class icebreaker (5 required by ATC).
HSKs for Condition I, II and III Deployments.

b. Personnel associated equipment per person:

One anti-exposure coverall or dry suit w/mitts when water temps are less than 70°.
One set of foul weather gear suitable to climate.

7. Mobility and Deployment.

a. HH-65A aircraft are deployable to other CG air stations, other land based air facilities (i.e., for AVDET), or to CG cutters as described in Chapter 2. If an isolated aviation detachment is desired, then additional planning factors must be developed.

b. Personnel and equipment should be transported as follows:

(1) Personnel: Air crews deploy with the aircraft. Remaining members should deploy by air using organic (Coast Guard) or TOA (AMC) aircraft - transportation shall be pre-identified.

(2) Equipment: The aircraft is a self-deployable major equipment (MEQPT). A HSK, for afloat deployments, and follow on logistics support items for the aircraft should be transported by air using organic (Coast Guard) or TOA (AMC) aircraft - transportation must be preidentified.

8. HH-65A Example Computations.

a. Situation. The planner requires an HH-65A to maintain an alert posture at a location where no Coast Guard air station is available. The nature of the requirement is such that a readiness posture for 16 hours per day is acceptable. Occasional flights will be required, but level of flight activity is not expected to exceed what would normally be required of the aircraft in any one day.

b. Step 1. Select a location where aviation services, messing, berthing, fuel (JP-4/5), security and support services are available.

c. Step 2. Aircraft, flight crews, and maintenance personnel would be provided from a Coast Guard air station with an operating allowance of these aircraft.

NOTE: If the deployed location is reasonably close to the contributing unit, this operation can function in a detachment mode, which requires additional planning not addressed herein. More difficult maintenance, as well as administrative and logistics support, would be provided from the parent unit.

d. Step 3. Flight hours available:

(1) Using the historic average (1.5 hours/sortie), the number of sorties per day would be calculated as follows:

Expected sortie duration	1+30 hours
Pre-flight time/sortie	0+45 hours
Post-flight time/sortie	0+30 hours
Turnaround time/sortie	1+00 hours
	3+45 hours

(2) Aircraft available 16 hours/day. Divided by 3.8 hours/sortie = 4 sorties per day.

(3) Four sorties per day times 1.5 hours/sortie = 6 flight hours/day. Available flight hours can be increased by increasing the length of sortie, such as trackline surveillance or orbiting in a location. The maximum sortie duration is 3+00 hours.

Expected sortie duration	3+00 hours
Pre-flight time/sortie	0+45 hours
Post-flight time/sortie	0+30 hours
Turnaround time/sortie	1+00 hours
	5+15 hours

(4) Aircraft available 16 hours/day.
Divided by 5.3 hours/sortie = 3 sorties per day.

e. Three sorties per day times 3+00 hours/sortie = 9 flight hours/day. If these flight hours are insufficient to perform the desired mission(s), the planner should consider adding another helicopter to the deployment unit.

F. Force Element: HU-25 - Medium Range Fixed Wing Aircraft.

1. Applicable Reference Documents.

a. NWP 11-3 (series), Characteristics and Capabilities of U.S. Navy Aircraft (including the U.S. Coast Guard)
b. COMDTINST M3710.1 (series), Air Operations Manual

2. Functional Duties. Aviation flight crew personnel:

a. Operate the aircraft.
b. As directed, conduct operations and logistics missions.

3. Personnel. All aviation personnel members will be qualified per COMDTINST M3710.1 (series).

a. HU-25 flight crew: 5 persons: 2 officers, 3 enlisted (UTC: 3CG04)

(1) Two officers (O-2 thru O-4). Pilots.
(2) One enlisted (avionicsman).
(3) One enlisted (dropmaster).
(4) One enlisted (any aviation rate).

b. Condition I Deployment (up to 7 days). Per aircraft deployed:

(1) Two aviation flight crews (UTC: 3CG04). One enlisted should be an AD.
(2) One aviation engineering support team (UTC: WCG01)

c. Condition II Deployment (up to 60 days). Deployments should be made with two or more aircraft. Due to the duration of deployment, additional comand and control, and other support force elements may be needed, as well. Per aircraft deployed:

(1) Two aviation flight crews (UTC: 3CG04)
(2) One aviation engineering support team (enhanced) (UTC: WCG02) for the first aircraft, and one aviation engineering support team (UTC: WCG01) for every subsequent aircraft.

d. Condition III Deployment (over 60 days). Same as Condition II Deployment except:

(1) Three aviation flight crew (UTC: 3CG04) per aircraft.
(2) One additional aviation engineering support team (UTC: WCG01) when two or more aircraft are deployed for more than 60 days.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
HU-25A/B FW ACFT	3EJ20	EQP	5	0
HU-25B AIREYE FW ACFT	3EJ21	EQP	5	0
HU-25C FW ACFT	3EJ22	EQP	5	0
HU-25 FLT CRW	3CG04	CRW	P	5
AV ENG SUP TM	WCG01	TM	P	5
AV ENG SUP TM E	WCG02	TM	P	9

5. Planning Factors for Force List Development.

a. Include each apportioned aircraft in the commander's force list.

b. Operating Parameters:

Maximum Endurance	5+45 hours
Average Sortie Duration	3+00 hours
Pre-flight Time Per Sortie	1+00 hours
Post-flight Time Per Sortie	1+00 hours
Turnaround Time*	0+00 hours

*Assume aircraft servicing can be performed in conjunction with time allotted for pre-flight and post-flight. Turnaround time will increase when cargo must be loaded or unloaded.

c. Maintenance Workload: 15.2 maintenance manhours per flight hour (MMH/FH):

(1) Expected Number of Sorties Per Day:

Sortie = 3.0 hours	Sortie = 4.0 hours
24.0 hours/day	24.0
-8.0 hours/day maintenance	-8.0
16.0 hours/day available	16.0
5.0 hours/sortie	6.0
3 sorties/day	2 sorties/day

(2) Expected Number of Flight Hours Per Day:

@3 sorties/day X 3.0 hours/sortie = 9.0 flight hours/day
@2 sorties/day X 4.0 hours/sortie = 8.0 flight hours/day

(3) Expected Maintenance Manhours/day (not including servicing):

8.0 FH/day X 15.2 MMH/FH = 121.2 manhours/day

6. Equipment Requirements.

a. Aircraft associated equipment for each HU-25:

Airframe equipped with standard aircraft equipment, per Chapter 5 of COMDTINST M3710.1 (series).
Two night vision goggles.
One gyro-stabilized binocular.
APG-66 radar, FLIR, no air drop capability (HU-25C Only).
One SLAR, One IR/UV Line Scanner, and
One KS-84 Reconnaissance Camera (HU-25B Only).
Camera, 35 mm single lense reflex, film, and accessories for reconnaissance and intelligence missions.

One deployment support kit, including equipment to conduct 200, 400 and 800 hour inspections for deloyments over 20 days, and maintenance facility equipment (hoists, stands, jacks, etc.) for deployments over 50 days. To be developed by Commandant (G-EAE).

b. Personnel associated equipment per person:

One anti-exposure coverall w/mitts (command discretion).
One set of foul weather gear suitable to climate.

7. Mobility and Deployment.

a. The HU-25 aircraft is deployable to other Coast Guard air stations or other land based air facilities (i.e., for AVDET). If an isolated aviation detachment is desired, then additional planning factors must be developed.

b. Personnel and equipment should be transported as follows:

(1) Personnel: Air crews deploy with the aircraft. Remaining members should deploy by air using organic (Coast Guard) or TOA (AMC) aircraft - transportation must be pre-identified. Two full crews cannot deploy in a single aircraft; there are only nine seats.

(2) Equipment: The aircraft is a self-deployable major equipment (MEQPT). Follow on logistics support items for the aircraft should be transported by air using Coast Guard or TOA (AMC) aircraft - transportation must be pre-identified. The deployment site must have a fresh water engine wash source because of the salt water operational environment.

8. HU-25 Example Computations.

a. Situation. The planner requires fixed wing aircraft surveillance of approaches to Chesapeake Bay twice per day. The mission profile is to fly 300 miles seaward and return on an offsetting trackline to inventory approaching shipping. Aircraft will investigate suspicious radar contacts and will seek to positively identify each radar target. The only aircraft available is an HU-25 (i.e., HC130s committed elsewhere).

b. Step 1. Select location where airport services, messing, berthing, fuel (JP-4/5), security and support services are available.

c. Step 2. Here the planner must decide whether to operate the aircraft on a deployed basis or to base the operations from parent unit. The HU-25 has the capacity to fly at high altitude at 400 knots before dropping down to search altitude (5000 feet and below), so its responsiveness is much greater than aircraft which must fly to the operating area at a slower speed. The availability of the aircraft would be much greater if it were left at the home unit because tools, spare parts, and more maintenance personnel are in place to support it. Moreover, the planner does not have to be concerned about the support factors in Step 1. For the purposes of the example, however, it will be assumed that the aircraft will be deployed and operate from a remote site to perform this mission.

d. Step 3. Flight hours required:

Requirement: fly 600 nm trackline twice per day.
Search speed of HU-25 (low altitude) = 180 to 220 knots.
Endurance of HU-25 = 5+45 hours.
Trackline miles available = 4 X 220 = 880.
Mission is within the operational capabilities of the aircraft. The aircraft will also have some time available to investigate radar contacts and identify shipping.

e. Step 4. Flight hours available:

Using a maximum endurance flight profile (5+00 hours/sortie, 45 minutes fuel reserve), the number of sorties per day would be calculated as follows:

Expected sortie duration	5+00 hours
Pre-flight time/sortie	1+00 hours
Post-flight time/sortie	1+00 hours
	7+00 hours

Aircraft available 16 hours/day. Divided by 7.0 hours/sortie 2.3 sorties per day. Two sorties per day times 5.0 hours/sortie = 10 flight hours/day. Therefore, one HU-25 will provide sufficient flight hours to perform the desired mission.

G. Force Element: HC-130 - Long-Range Fixed Wing Aircraft.

1. Applicable Reference Documents.

   a. NWP 11-3 (series), Characteristics and Capabilities of U.S. Navy Aircraft (including the U.S. Coast Guard)
   b. COMDTINST M3710.1 (series), Air Operations Manual

2. Functional Duties. Aviation flight crew personnel:

   a. Operate the aircraft.
   b. As directed, conduct operations and logistics missions.

3. Personnel. All aviation personnel members will be qualified per COMDTINST M3710.1 (series).

   a. HC-130 flight crew: 7 persons: 2 officers, 5 enlisted (UTC: 3CG05)

      (1) Two officers (O-2 thru O-4). Pilots.
      (2) Two enlisted (AT). Navigator and avionicsman.
      (3) One enlisted (flight engineer).
      (4) One enlisted (loadmaster).
      (5) One enlisted (Dropmaster).

   b. Condition I Deployment (up to 7 days). Per aircraft deployed:

      (1) Two aviation flight crews (UTC: 3CG05)
      (2) One aviation engineering support team (UTC: WCG01)

   c. Condition II Deployment (up to 60 days). Same as Condition I, except:

      (1) One aviation engineering support team (enhanced) (UTC: WCG02) for the first aircraft, and one aviation engineering support team (UTC: WCG01) for every subsequent aircraft.
      (2) If sustained flight operations of 8 hours or more per day is required, then add one additional aviation flight crew (UTC: 3CG05).

   d. Condition III Deployment (over 60 days). Per aircraft:

      (1) Three aviation flight crews (UTC: 3CG05)
      (2) One aviation engineering support team (enhanced) (UTC: WCG02) for the first aircraft, and one aviation engineering support team (UTC: WCG01) for every subsequent aircraft.
      (3) If sustained flight operations of 8 hours or more per day is required, then add one additional aviation engineering support team (UTC: WCG01) per aircraft after 60 days.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
HC-130 FW ACFT	3EJ10	EQP	E	0
HC-130 FLT CRW	3CG05	CRW	P	7
AV ENG SUP TM	WCG01	TM	1	5
AV ENG SUP TM E	WCG02	TM	1	9

5. Planning Factors for Force List Development.

a. Include each apportioned aircraft in the commanders force list.

b. Operating Parameters:

Maximum Endurance	12+00 hours
Average Sortie Duration	6+00 hours
Pre-flight Time Per Sortie	1+30 hours
Post-flight Time Per Sortie	1+00 hours
Turnaround Time*	0+00 hours

*Assume aircraft servicing can be performed in conjunction with time allocated for pre-flight. Turnaround time will increase when cargo must be loaded or unloaded.

c. Maintenance Workload: 15.8 maintenance manhours per flight hour (MMH/FH):

(1) Expected number of sorties per day:

Sortie = 6.0 hours	Sortie = 8.0 hours	Sortie = 11.0 hours
24.0 hours/day	24.0	24.0
-8.0 hours/day maint.	-8.0	-8.0
16.0 hours/day avail.	16.0	16.0/
8.5 hours/sortie	10.5	13.5
2 sorties/day	2 sorties/day	1 sortie/day

(2) Expected Number of Flight Hours Per Day:

@2 sorties/day X 6.0 hours/sortie = 12.0 flight hours/day
@2 sorties/day X 8.0 hours/sortie = 16.0 flight hours/day*
@1 sortie/day X 11.0 hours/sortie = 11.0 flight hours/day

*Maintenance cannot support this tempo of operations more than a day or two.

(3) Expected Maintenance Manhours/day (not including servicing):

12.0 FH/day X 15.8 MMH/FH = 189.7 manhours/day
16.0 FH/day X 15.8 MMH/FH = 253 manhours/day
11.0 FH/day X 15.8 MMH/FH = 173.9 manhours/day

6. Equipment Requirements.

a. Aircraft associated equipment for each HC-130:

Airframe equipped with standard equipment, per Chapter 5 of COMDTINST M3710.1 (series).
Two night vision goggles.
Two gyro-stabilized binoculars.
One deployment support kit (TBD by Commandant (G-EAE).
Camera, 35 mm single lense reflex, film, and accessories for reconnaissance and intelligence missions.

b. Personnel associated equipment per person:

One anti-exposure coverall w/mitts (command discretion).
One set of foul weather gear suitable to climate.

7. Mobility and Deployment.

a. The HC-130 is deployable to other Coast Guard air stations or other land based air facilities (i.e., for AVDET). If an isolated aviation detachment is desired, then additional planning factors must be developed.

b. Personnel and equipment should be transported as follows:

(1) Personnel: Air crews and maintenance personnel deploy with the aircraft.

(2) Equipment: The aircraft is a self-deployable major equipment (MEQPT). All prearranged equipment can be transported with the aircraft.

H. Force Element: RG-8A - Reconnaissance Glider.

1. Applicable Reference Documents.

   a. NWP 11-3 (series), Characteristics and Capabilities of U.S. Navy Aircraft (including U.S. Coast Guard)
   b. COMDTINST M3710.1 (series), Air Operations Manual

2. Functional Duties. Aviation flight crew personnel:

   a. Operate the aircraft.
   b. As directed, conduct operations.

3. Personnel. All aviation personnel will be qualified per COMDTINST M3710.1 (series).

   a. RG-8A flight crew: 2 persons: 1 officer, 1 enlisted (UTC: 3CG07)

      (1) One officer (O-2 thru O-4). Pilot.
      (2) One enlisted. Sensor operator.

   b. Condition I Deployment (up to 7 days). Per aircraft deployed: 9 persons:

      (1) Two aviation flight crews (UTC: 3CG07)
      (2) One aviation engineering support team (UTC: WCG01)

   c. Condition II Deployment (up to 60 days). Deployments should be made with two aircraft. Due to the duration of deployment, additional command and control, and other support force elements from Chapter 4 may be needed, as well. Per aircraft deployed:

      (1) Three aviation flight crews (UTC: 3CG07).
      (2) One aviation engineering support team (enhanced) (UTC: WCG02) for the first aircraft.

   d. Condition III Deployment (over 60 days). In addition to those personnel required for Condition II above, add one additional aviation engineering support team (UTC: WCG01).

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
RG-8A	3EJ8A	EQP	E	0
RG-8A FLT CRW	3CG07	CRW	P	2

5. Planning Factors for Force List Development.

a. Include each apportioned aircraft in the commanders force list. If aircraft are to deploy, then modify force list to reflect the deployment.

b. Operating Parameters:

Maximum Endurance	8+00 hours
Average Sortie Duration	2+45 hours
Pre-flight Time Per Sortie	+30 hours
Post-flight Time Per Sortie	0+30 hours
Turnaround Time*	+30 hours

*Time required to service aircraft and repair minor discrepancies. Based on above averages, each sortie ties up the airframe for 4+15 to 9+30 hours.

c. Maintenance Workload: 7.0 maintenance manhours (for regular maintenance) per flight hour (MMH/FH). Long term maintenance (ACM, major component changes and/or catastrophic failures) require more man-hours.

(1) Expected Number of Sorties Per Day.

Sortie = 2.75 hours	Sortie = 8.0 hours
24.0 hours/day	24.0
-8.0 hours/day maintenance	-8.0
16.0 hours/day available	16.0
4.3 hours/sortie	9.5
4 sorties/day	2 sorties/day

(2) Expected Number of Flight Hours Per Day.

@4 sorties/day X 2.75 hours/sortie = 11 flight hours/day
@2 sorties/day X 8.0 hours/sortie = 16 flight hours/day

(3) Expected Maintenance Manhours/day (not including servicing):

11 FH/day X 7.0 MMH/FH = 77.0 manhours/day
12 FH/day X 7.0 MMH/FH = 112.0 manhours/day

From the above calculations, full maintenance could not be accomplished during a Condition I Deployment. However, certain maintenance tasks can be slipped or the aircraft can fly with non-grounding discrepancies for short term deployments.

6. Equipment Requirements. To be provided by providing unit:

a. Aircraft associated equipment for each RG-8A:

Airframe equipped with standard aircraft equipment, per Chapter 5 to COMDTINST M3710.1 (series)
Two night vision goggles
One gyro-stabilized binocular
One support kit for land based operations (Conditions I, II and III) (to be developed by Commandant (G-EAE))
One Forward Looking Infrared Sensor (FLIR).
Camera, 35 mm single lense reflex, film, and accessories for reconnaissance and intelligence missions.

b. Personnel associated equipment per person:
One anti-exposure coverall w/mitts when water temps are less than 70°.
One set of foul weather gear suitable to climate.

7. Mobility and Deployment.

a. The RG-8A with flight crew and aviation engineering support are deployable to other Coast Guard air stations or other land based air facilities (i.e., for AVDET). If an isolated aviation detachment is desired, then additional planning factors must be developed.

b. Personnel and equipment should be transported as follows:

(1) Personnel: One air crew deploys with the aircraft. Additional air crew and maintenance personnel will require separate transportation.

(2) Equipment: The aircraft is a self-deployable major equipment (MEQPT). Follow on logistics support items for the aircraft should be transported by air using organic (Coast Guard) or (AMC) aircraft.

8. RG-8A Example Computations.

a. Situation. The planner requires a covert reconnaissance aircraft which is capable of proceeding 75 nm offshore to maintain an alert posture at a location where no Coast Guard air station is available. The nature of the requirement is such that a readiness posture for 16 hours per day is acceptable. The maximum number of flight hours is needed on a steady state basis to patrol the approaches to the harbor. During times when vessels are approaching or departing the port, continuous aerial surveillance is necessary.

b. Step 1: Select location where airport services, messing, berthing, fuel (AV. gas), security and support services are available.

c. Step 2: Aircraft, flight crews, and maintenance personnel would be provided from a Coast Guard air station with an operating allowance of these aircraft.

NOTE: If the deployment location is reasonably close to the contributing unit, this operation can function in a detachment mode. More difficult maintenance, as well as administrative and logistics support, would be provided from the parent unit.

d. Step 3: Flight hours available:

Using the historic average (2.75 hours/sortie) the number of sorties per day would be calculated as follows:

Expected sortie duration	2.75	hours
Pre-flight time/sortie	0.5	hours
Post-flight time/sortie	0.5	hours
Turnaround time/sortie	0.5	hours
	4.25	hours

Aircraft available 16 hours/day, divided by 4.3 hours/sortie = 4 sorties per day.

Four sorties per day times 2.75 hours/sortie = 11 flight hours/day.

Available flight hours can be increased by increasing the length of sortie, such as trackline surveillance or orbiting in a location. The maximum sortie duration is 8.0 hours.

Expected sortie duration	8.0 hours
Pre-flight time/sortie	0.5 hours
Post-flight time/sortie	0.5 hours
Turnaround time/sortie	0.5 hours
	9.5 hours

Aircraft available 16 hours/day, divided by 9.5 hours/sortie = < 2 sorties per day. Therefore sortie duration would have to be reduced to 6.5 hours.

Two sorties per day times 6.5 hours/sortie = 13 flight hours/day.

e. Since these flight hours are insufficient to perform the desired mission(s) when vessels are entering or leaving port (continuous airborne surveillance required), the planner should plan to add another aircraft to the deployment unit during the relatively short periods of peak demand.

I. Force Element: VC-4A - Medium Range Command and Control Aircraft.

1. Applicable Reference Documents.

a. NWP 11-3 (series), Characteristics and Capabilities of U.S. Navy Aircraft (including the U.S. Coast Guard)
b. COMDTINST M3710.1 (series), Air Operations Manual

2. Functional Duties. The VC-4A medium range aircraft operates from Air Station Washington located at Washington National Airport, Washington DC. The aircraft is primarily used for administrative support - personnel and cargo transport. During a contingency, the VC-4A is an operational asset and is to be used for transportation of high ranking command and control personnel and high value/low volume cargo.

3. Personnel.

a. VC-4/11A flight crew: 4 persons: 2 officers, 2 enlisted (UTC 3CG08)

(1) Two officers (O-2 thru O-5). Pilots.
(2) One enlisted. Avionicsman.
(3) One enlisted. Flight Mechanic.

b. Condition I Deployment (up to 7 days).

(1) Two aviation flight crews. (UTC: 3CG08)
(2) Major unscheduled maintenance may necessitate flying aircraft to an authorized Gulfsteam repair facility.

c. Condition II Deployment (up to 60 days).

(1) Two aviation flight crews. (UTC: 3CG08)
(2) One aviation engineering support team. (UTC: WCG01)
(3) Major unscheduled maintenance may necessitate flying aircraft to an authorized Gulfsteam repair facility.

d. Conditior III Deployment (over 60 days).

(1) Two aviation flight crews. (UTC: 3CG08)
(2) One aviation engineering support team. (UTC: WCG01)
(3) Major unscheduled maintenance may necessitate flying aircraft to an authorized Gulfsteam repair facility.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
VC-4A	3EJ70	EQP	E	0
VC-4A/11A FLT CREW	3CG08	CRW	5	4
AV ENG SUP TEAM	WCG01	TM	1	5

5. Planning Factors for Force List Development.

a. Include each apportioned aircraft in the commanders force list.

b. Operating Parameters:

Maximum Endurance	6+00 hours
Average Sortie Duration	3+00 hours
Pre-flight Time Per Sortie	2+00 hours
Post-flight Time Per Sortie	2+00 hours
Turnaround Time	0+00 hours*

*Assume aircraft servicing can be performed in conjunction with time allocated for pre-flight.

c. Note: Air Station Washington presently has three total flight crews assigned and two operational aircraft. Therefore Condition I, II and III deployments can not be simultaneously supported for both assigned aircraft without augmentation.

d. Maintenance Workload: Aircraft available for maintenance 8 hours per day.

Sortie = 3.0 hours	Sortie = 6.0 hours
24.0 hours/day	24.0 hours/day
-8.0 hours/day maint.	-8.0 hours/day maint.
16.0 hours/day avail.	16.0 hours/day avail.
7.0 hours/sortie	10.0 hours/sortie
2 sorties/day	1 sortie

6. Equipment Requirements.

a. Aircraft associated equipment:

Airframe equipped with standard equipment, per Chapter 5 of ref (b).
Major aircraft maintenance is contracted out to lowest bidder.
Aircraft requires water/methanol to attain maximum performance on hot days at high gross weights.

b. Personnel associated equipment per person:

Standard military flight suits (aircrews fly in CG uniforms).

7. Mobility and Deployment.

a. The VC-4A is deployable to other Coast Guard air stations or other land based air facilities (i.e., AVDET). If an isolated aviation detachment is desired, then additonal planning factors must be developed.

b. Personnel and equipment will be transported with aircraft.

J. Force Element: VC-11A - Medium Range Command and Control Aircraft.

1. Applicable Reference Documents.

   a. NWP 11-3 (series), Characteristics and Capabilities of U.S. Navy Aircraft (including the U.S. Coast Guard)
   b. COMDTINST M3710.1 (series), Air Operations Manual

2. Functional Duties. The VC-11A long range aircraft operates from Air Station Washington located at Washington National Airport, Washington DC. The aircraft is primarily used for administrative support - personnel and cargo transport. During a contingency, the VC-11A is an operational asset and is to be used for transportation of high ranking command and control personnel and high value/low volume cargo.

3. Personnel.

   a. VC-4A/11A flight crew: 4 persons: 2 officers, 2 enlisted (UTC 3CG08)

      (1) Two officers (O-2 thru O-5). Pilots.
      (2) One enlisted. Avionicsman.
      (3) One enlisted. Flight Mechanic.

   b. Condition I Deployment (up to 7 days).

      (1) Two aviation flight crews. (UTC: 3CG08)
      (2) Major unscheduled maintenance may necessitate flying aircraft to an authorized Gulfsteam repair facility.

   c. Condition II Deployment (up to 60 days).

      (1) Two aviation flight crews. (UTC: 3CG08)
      (2) One aviation engineering support team. (UTC: WCG01)
      (3) Major unscheduled maintenance may necessitate flying aircraft to an authorized Gulfsteam repair facility.

   d. Condition III Deployment (over 60 days).

      (1) Two aviation flight crews. (UTC: 3CG08)
      (2) One aviation engineering support team. (UTC: WCG01)
      (3) Major unscheduled maintenance may necessitate flying aircraft to an authorized Gulfsteam repair facility.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
VC-11A	3EJ70	EQP	E	0
VC-4A/11A FLT CREW	3CG08	CRW	5	4
AV ENG SUP TEAM	WCG01	TM	1	5

5. Planning Factors for Force List Development.

a. Include each apportioned aircraft in the commanders force list.

b. Operating Parameters:

Maximum Endurance	6+00 hours
Average Sortie Duration	3+00 hours
Pre-flight Time Per Sortie	2+00 hours
Post-flight Time Per Sortie	2+00 hours
Turnaround Time	0+00 hours*

*Assume aircraft servicing can be performed in conjunction with time allocated for pre-flight.

c. Note: Air Station Washington presently has three total flight crews assigned and two operational aircraft. Therefore Condition I, II and III deployments can not be simultaneously supported for both assigned aircraft without augmentation.

d. Maintenance Workload: Aircraft available for maintenance 8 hours per day.

Sortie = 3.0 hours	Sortie = 6.0 hours
24.0 hours/day	24.0 hours/day
-8.0 hours/day maint.	-8.0 hours/day maint.
16.0 hours/day avail.	16.0 hours/day avail.
7.0 hours/sortie	10.0 hours/sortie
2 sorties/day	1 sortie

6. Equipment Requirements.

a. Aircraft associated equipment:

Airframe equipped with standard equipment, per Chapter 5 of COMDTINST M3710.1.
Major aircraft maintenance is contracted out to lowest bidder.

b. Personnel associated equipment per person:

Standard military flight suits (aircrews fly in CG uniforms).

7. Mobility and Deployment.

a. The VC-11A is deployable to other Coast Guard air stations or other land based air facilities (i.e., AVDET). If an isolated aviation detachment is desired, then additonal planning factors must be developed.

b. Personnel and equipment will be transported with aircraft.

CHAPTER 4. SUB-UNIT FORCE ELEMENTS

A. General.

1. This chapter contains sub-unit force element descriptions. Planning factors are intended for planning purposes only, not as strict operational doctrine. These force elements may:

   a. Augment existing units (including programmatic requirements); or

   b. Be combined with other force elements to create larger teams, details, units, or forces.

2. Force elements that are deployable to overseas locations require detailed movement information, as identified in enclosure (3), Force List Data Element Descriptions. Force element descriptions contained in this chapter provide service standard information, as identified in enclosure (2), TUCHA Data Element Descriptions, which contains useful information for developing force lists.

3. Unless specifically stated otherwise in the force element description, none of the force elements are self-administering. Those elements that are deployable will normally be transported by air, using Air Mobility Command or Coast Guard aircraft.

4. This chapter provides standard service policy, but should not be construed as a limitation by the operational commander when developing force lists. The intent is to provide a framework which the operational commander can use when developing force lists. If the policies don't fit local requirements, adjust as required and document it in the plan.

5. Logistics and sustainment data for deployable operational force elements have been developed to include requirements for ammunition, petroleum, oil, and lubricants (POL), provisions, spare parts and other supply class categories as needed to sustain the force element. This data is included in the Logistics Factor File (LFF) of the JOPES software in WWMCCS.

B. Reference Documents. This chapter is the primary source of information for operational, operational support, service support, command and control, and augmentation sub-unit force elements. Other applicable references include:

1. COMDTINST M5312.11 (series), Staffing Standards Manual
2. COMDTINST M1414.8 (series), Enlisted Qualifications Manual
3. COMDTINST M1500.10 (series), Training and Education Manual
4. COMDTINST M1001.27 (series), Reserve Administration and Training Manual
5. COMDTINST M1000.6 (series), Personnel Manual; Chapter 6 - Qualifications

C. Force Element: Administrative Support - Personnel. HQPC (G-PIM)

1. Applicable Reference Documents.

   a. COMDTINST M1000.6A (series), Personnel Manual
   b. COMDTINST M1001.27 (series), Reserve Admin and Training Manual
   c. COMDTINST M7220.29 (series), Pay Manual
   d. COMDTINST M1080.7 (series), PMIS/JUMPS Manual, Volume I (Field Unit)
   e. COMDTINST M1080.9 (series) PMIS/JUMPS Manual, Volume II (PERSRU).
   f. The Joint Federal Travel Regulations, Volume I (Uniformed Service Members)
   g. COMDTINST M1414.9A (series), Enlisted Qualification Codes Manual (Tab: 28).
   h. COMDTINST M5312.11A (series), Staffing Standards Manual
   i. COMDTINST M4600.11 (series), Comptroller Manual, Vol. II - Transportation
   j. COMDTINST M4600.8 (series), Comptroller Manual, Vol IX - Travel

2. Functional Duties.

   a. Prepare applications and identification cards.

   b. Provide data in support of personnel, pay, travel, transportation of HHG transactions for assigned members.

   c. Prepare and maintain unit personnel data records, unit correspondence records, and Coast Guard Directives.

   d. Operate Coast Guard Standard Terminal.

   e. Prepare and maintain Personnel Security Records.

   f. Prepare, document, and file all pay and personnel related transactions.

3. Personnel. 1 YN (E-4 thru E-6)

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
PERS/ADMIN SUP	LAN20	ENL	P	1

5. Planning Factors for Force List Development.

   a. Calculate one yeoman (E-6 and below) per each 120 personnel utilizing standard fractional manpower cutoffs, but the needs of each unit must be evaluated on an individual basis.

   b. Assign one additional YN to CCGF for other administrative duties such as handling regulatory paperwork.

c. For PERSRUs assign one LAN20 for every 90 additional records.

d. Calculations:

(1) Total required personnel divided by 120 = _____

(2) One additional YN for CCGF for administrative duties: ____

(3) For PERSRU divide number of additional records by 90 = _____

(4) Add (1), (2) and (3) to determine YN requirements for personnel and administrative support = Total Required _____.

Note: Local needs dictate specific equipment requirements.

6. Equipment Requirements. To be provided by receiving unit as required:

Standard Terminal
Real-Time Automated Personnel Identification System (RAPIDS) terminal
Filing Cabinet
Desk
Chair
Typewriter
Photocopier
Laser Printer
Communications network (data link)
Photo I.D. Card Kit

7. Mobility and Deployment. This force element can be quickly mobilized and deployed, provided adequate equipment and facility support and communications network (data links, etc.) are available.

D. Force Element: Alien Migrant Interdiction Operations Augmentation Force Elements HQPC (G-OLE)

1. Applicable Reference Documents.

   a. District AMIO Operations Plan (OPLAN)

2. Functional Duties.

   a. Perform rate/training specific duties in support of a major migrant interdiction operation at sea. The mission of any AMIO operation is to interdict migrants at sea and minimize the loss of life.

3. Personnel. Augmentation varies depending upon the extent of the expected migration, cutter/vessel size, and unit responsibilities.

UNIT	PERSONNEL	COMMENTS
COGARD AMIO H/MEC OTC AND STAFF		
	O-6	Officer in Tactical Command
	O-4 (Aviator)	Air Ops Coordinator
	O-3 (2)	OTC Staff
	HS	
	SS (2)	
	RM (2)	
	PAO	As required, UTC 68M50
	Interpreter	
	Chaplain	As required
COGARD AMIO MEC AUG DETAIL		
	HS	WMEC (Task Unit)
	SS (2)	
	RM	
	Interpreter	
COGARD AMIO FORWARD SUPPORT COMMAND		
	O-6	Commander
	O-3/CWO	Staff Support - logistics
	YNC	Staff Support
	RM (5)	Comms Support
	E-6	Warehouse
	E-3 (2)	Warehouse

This force element establishes a forward support command, under a CG or DoD base, close to the interdiction area, e.g. for Haitian Ops at CG Base Miami.

COGARD AMIO AIR DETAIL		
	O-3/O-4	Maintenance Officer
	RM (2)	

COGARD AMIO FIELD BASE AUGMENTATION DETAIL

	O-3	Logistics Support
	SK	
	HS (2)	As required
	SS	
	RM	As required

This force element provides augmentation at the field operating base, e.g. at GITMO for Haitian Ops.

COGARD AMIO NAVY AUGMNT TM

	O-2 or above	Boarding Officer on Navy Vessel
	E-5 or above	Boarding Officer
BOAT CREW-4 PERS	E-3 TO E-6 (4)	
LIAISON OFFICER	O-3	To host nation, UTC LSM40
LOGISTICS SUPPORT	SK	As required for logistics at the Air Station

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
AMIO H/MEC OTC	YAHEC	STF	P	12
AMIO MEC AUGMNT	YAMEC	STF	P	5
AMIO FWD SUP CMD	JAFDB	SCM	P	11
AMIO AIR DETAIL	JAAVD	DTL	P	3
AMIO FIELD BASE AUGMNT	LABAD	DTL	P	6
AMIO NAVY AUGMNT TM	YANAT	TM	P	2
BOAT CREW-4 PERS	QAG21	TM	P	4
LNO OTH SVC	LSM40	OFF	P	1
LOGIST SUP	L8N70	ENL	P	1

5. Planning Factors

a. The number and type of forces needed for an AMIO operation will vary greatly depending upon the expected number of migrants and the area to be patrolled. CG forces may be augmented by DOD resources. Air surveillance is generally required. The force elements listed above were needed to augment CG cutters and Navy ships during Operation Sea Signal/Operation Able Manner off the Haitian coast in January 1993.

b. Typical platform requirements for a major AMIO would be:
Surface Assets:

WHEC (OTC)	1
WMEC	7
WPB	3
USN Transport Vsl	2
USN Interdiction Vsl	2

Air Assets:	
HH-65	4
HU-25	2
HC-130	2
HH-3F	1

c. The AMIO Navy Augmentation Team is only required on USN Interdiction Vessels. It differs from the Visit and Search Team in that it is crafted to enforce US laws not conduct military operations. They rely upon a qualified boat crew to transport them to and from the vessel of interest and provide a second boarding officer.

6. Equipment Requirements. Augmentees arrive with skills and training but do not carry equipment. They augment a cutter/base/air station and must be berthed and subsist with the regular crew.

7. Mobility and Deployment. Augmentees require transportation to the receiving unit. They deploy with that cutter, ship,or AVDET.

E. Force Element: Boat Crew. HQPC (G-MPS)

1. Applicable Reference Documents.

a. 33 USC 1221 et seq.
b. 33 USC 1321
c. 50 USC 191
d. 33 CFR 6
e. 33 CFR 160
f. 33 CFR 165
g. COMDTINST M16114.1 (series), Boats of the U.S. Coast Guard
h. COMDTINST M16114.4 (series), Boat Management Manual
i. COMDTINST M16114.5 (series), Boat Crew Seamanship Manual
j. COMDTINST M16114.10 (series), Boat Crewman Qualification Guide
k. COMDTINST M16114.11 (series), Boat Coxswain Qualification Guide
l. COMDTINST 5312.15 (series), Boat Crew Utilization Guidelines
m. COMDTINST M1414.8 (series), Enlisted Qualifications Manual
n. COMDTINST M16000.11 (series), Marine Safety Manual, Vol. VI - Ports and Waterways Activities.
o. COMDTINST M16000.12 (series), Marine Safety Manual, Vol. VII - Port Security
p. COMDTINST M16000.13 (series), Marine Safety Manual, Vol. VIII - Classified Supplement
q. COMDTINST M16130.2 (series), CG Addendum to the National search and Rescue Manual
r. COMDTINST M16114.9 (series), Boat Crew Training Manual
s. COMDTINST M16114.6 (series), Boat Crew Qualification Guide, Vol IV, Boat Engineer
t. COMDTINST M10470.10 (series), CG Rescue & Survival Systems Manual
u. COMDTINST M1414.9 (series), Enlisted Qualification Codes Manual
v. COMDTINST M5312.15 (series), Boatcrew Utilization Guidelines
w. COMDTINST M16120.6 (series), Addendum to the National Search and Rescue Manual
x. COMDTINST M16247.38 (series) Maritime Law Enforcement Boarding Officer Professional Qualifications Standards (PQS)

2. Functional Duties. This is an extremely flexible force element that can be used to perform a variety of missions across a broad range of contingencies. The small boat can be operated to perform/support missions such as:

a. Enforce safety and security zones.

b. Prevent sabotage and/or infiltration of vessels, waterfront facilities and key assets.

c. Identify commercial vessels in the harbor, escort vessels, and control vessel movements as required.

d. Perform search and rescue, surveillance, intelligence and port security patrol duties.

e. Conduct waterborne inspections of aids to navigation, port facilities, and moored vessels.

f. Report dangerous conditions, including the presence of oil or hazardous substance pollution.

g. Enforce anchorage and load line regulations.

h. Perform logistical duties as directed.

i. Operations permitting and with concurrence of the port level commander, provide transportation for representatives of other services or agencies.

j. Perform other missions as directed by the port level commander.

3. Personnel. 3 or 4 enlisted persons - depends on boat size and utilization (e.g. boardings). Qualifications per references above and as outlined below.

a. Coxswain: Enlisted, E-4 to E-6

(1) Required:

(a) "S" - Series qualification codes, per paragraph 3.C.13 to COMDTINST M1414.8A, as required by boat type.

(2) Optional:

(a) Pistol Qualification, service record entry or EP qual code.
(b) Rifle Qualification, service record entry or ER qual. code.
(c) Shotgun Qualification, service record entry or ES qual. code.

b. Boat Engineer: Enlisted, E-4 to E-6 (typically a MK rating).

(1) Required:

(a) Currently certified Boat Engineer for type of boat operated or KF, Small Boat Eng, reserve only.
(b) Pistol Qualification, service record entry or EP qual code.
(c) Rifle Qualification, service record entry or ER qual. code.
(d) Shotgun Qualification, service record entry or ES qual. code.

(2) Optional:

(a) MK rating.
(b) "S" - Series qualification codes, per paragraph 3.C.13 to COMDTINST M1414.8A, as required by boat type.
(c) Familiarization in use of antiswimmer concussion grenades.
(d) HD - Emergency Medical Technician (EMT), or completion of nationally certified EMT course.

c. Boarding Officer: Enlisted, E-4 to E-6.

(1) Required:

(a) HL - Maritime Law Enforcement School Graduate, or satisfactory completion of Boarding Officer correspondence course and PQS Manual. This qualification must be recertified every six months.
(b) Pistol Qualification, service record entry or EP qual code.
(c) Rifle Qualification, service record entry or ER qual. code.
(d) Shotgun Qualification, service record entry or ES qual. code.
(e) Qualified boarding officer (local certification).

(2) Optional:

(a) BM, MK, MST or PS rating.
(b) CO-certified qualified per applicable references above.
(c) HD - Emergency Medical Technician or completion of Emergency Medical Technician course which meets DOT standards for national EMT certification.
(d) Familiarized in use of antiswimmer concussion grenades.
(e) M-60 familiarized, if boat is equipped (for UTBs only).
(f) Currently certified Boat Crewmember for type of boat operated or KG, Small Boat Crewman, reserve only.

d. Boat Crewmember: Enlisted, E-3 (not applicable to 3 man boat crew) (typically a SN/SA).

(1) Required:

(a) Currently certified Boat Crewmember for type of boat operated or KG, Small Boat Crewman, reserve only.
(b) Pistol Qualification, service record entry or EP qual code.
(c) Rifle Qualification, service record entry or ER qual. code.
(d) Shotgun Qualification, service record entry or ES qual. code.

(2) Optional: M-60 familiarized, if boat equipped (for UTBs only).

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
BOAT CREW-4 PERS	QAG21	TM	P	4
BOAT CREW-3 PERS	QAG22	TM	P	3
SRB-SURF RESCUE BOAT	MBT01	BT	E	0
UTB-UTIL BT, LARGE	MBT02	BT	E	0
PWB-PORTS/WATERWAYS BT	MBT03	BT	E	0
ANB-ATN BOAT	MBT04	BT	E	0
SKI-SKIFF, ICE	MBT05	BT	E	0
OTH-OTHER BOAT	MBT06	BT	E	0

5. Planning Factors for Force List Development.

a. Dependent upon planned operational use, recommend initial planning to man all boats that are 26 feet and under with a 3 person boat crew, and boats that are 27 feet and over with a 4 person boat crew. If boarding operations are envisioned, then a 4 person boat crew is required (one coxswain, one for weapons support, and two to ensure the safety of the boarding officer). The break down of 3- and 4-person boat crews will require the operational commander to analyze requirements for the six generic boat sizes, compared to those actually available, and the intended operational use of each boat and crew.

b. Strategic Ports: As per program manager directives, military outload facilities, Key Assets adjacent to navigable waterways, and facilities that handle hazardous materials in close proximity to outloads will be identified in the port level oplan. During implementation of the port level oplan in heightened threat conditions, limited access areas will be enforced by continuous waterside security monitors.

c. Key Asset Protection: Each designated Key Asset located immediately adjacent to a navigable waterway will be identified in a Waterside Security Annex to the respective STARC Key Asset Physical Security Plan. A copy of this annex will be inserted into the port level oplan, but the format and planning requirements will conform to the Key Asset Protection Program provisions of Chapter 9, reference (o). Waterside patrols (both harbor patrols and enforcement of limited access areas) will only be conducted when FORSCOM security forces are assigned on the shoreside during periods of heightened threat.

d. All Port Security Contingencies: Moving security or safety zones may be established around vessels carrying military essential cargoes, vessels carrying other hazardous materials when those vessels transit in close proximity to protected assets, and passenger vessels during periods of heightened, specified threats.

e. All Port Security Contingencies: In order to provide for additional security needs, security zones will be established if intelligence reporting suggests that a facility or vessel might

become a target for attack or sabotage. Boat patrols will provide continuous surveillance for the duration of the threat. Security zones will also be established around waterfront facilities at the direction of the COTP.

f. Harbor patrols will be conducted to monitor anchorages, conduct load line patrols, observe vessel bunkering and lightering, detect pollution incidents, monitor the operation of aids to navigation, detect dangerous or illegal conditions in the port area, and conduct surveillance of limited access areas. Special emphasis may be given to choke points where channel blockage or closure might restrict the function of the port. See paragraphs 4.E.5.b-4.E.5.e above.

g. For direct support of Aids to Navigation (ATON), plan for one watch per day for ATON missions.

h. The operational commander may reassign boats engaged in Port Security operations to SAR contingencies provided each active security zone is patrolled by a minimum of two boats. For support of military outloads, allocate boats for SAR standby in the deliberate planning process only after filling Port Security plan requirements.

i. 24-hour coverage required (8-hour watch per boat crew) for the enforcement of limited access areas and for the conduct of harbor patrols. Therefore, 4.2 boat crews (rounded up to next whole number) are required for 24-hour operations for seven days a week.

j. As appropriate, modify this force element to meet local situations and document in the oplan or contingency plan (as directed by the appropriate program manager). Include provisions for on-scene reliefs if necessary (see 4.j (4)), and a boat hull replacement factor of 20 percent.

(1) Design waterway patrol routes so that each protected asset and hazardous material operation in the port area will be observed at least once every four hours. Ensure that all vessels in all anchorages are observed at close range once during a 24 hour period. Each planner should verify by actual underway trial each patrol route to ensure it meets this criteria under all expected conditions (daylight, night, fog, etc.).

(2) Fixed Security Zones:

(a) Strategic Ports: Consistent with program manager directives, security zones will be placed around those facilities and structures designated in the port level oplan. When operations are not in progress, the Security Zone will be monitored every four hours by waterside and shoreside patrols. However, while operations are in

progress, monitoring will be performed on a continuous basis. Assign boats using the formula in section "k" below. "Operations in progress" are defined as:

1. When there is military essential or critical commercial cargo staged at or near the port, (regardless of whether or not there is a vessel at the facility) and FORSCOM is providing shoreside security; or

2. When there is a vessel at the facility loading or discharging or scheduled to load or discharge military cargo in support of the initial deployment of U.S. forces.

(b) Other Port Security Contingencies: With the implementation of the Key Asset Physical Security Plans, Maritime Counterterrorism Contingency (MCT) Plans, Civil Disturbance Plans, or other contingencies, shoreside and/or waterside security zones should be established around any asset in the port area when intelligence information indicates the existence of a specified, imminent threat of unlawful attack or sabotage. Provide boat patrols until the threat is resolved.

(c) Numbers of Force Elements Assigned: Chapter 7, reference (o) describes the number of boats and tactics recommended for various levels of threat. For purposes of planning when no threat is specified, determine number of boats needed as follows:

1. Military Outloads:
   One boat to act as a tactical reaction boat (TRB) stationed in close proximity to the primary asset(s) being protected (normally a vessel).

   A minimum of two boats to act as screen craft to cover each avenue of approach to the asset(s).

   One small, high speed, shallow draft boat to patrol close along shore and under the dock.

2. Key Assets:

   One boat to act as a TRB stationed in close proximity to the asset.

   One boat to act as a screen vessel at the outer boundary of a security zone to cover the avenues of approach to the asset.

NOTE: C.G. forces shall not be assigned until non-Coast Guard security forces are assigned on the shoreside.

3. Threat: The number of boats assigned during a security operation is dependent upon the level of threat, the known capability of the threat, and the geographic size of the immediate area effected. This is especially true for terrorist incidents involving high volume passenger vessel ports. NOTE: Each boat can realistically cover a 500 meter radius.

4. On Scene Reliefs: Determine if additional boat patrols are needed to conduct on-scene reliefs. One way to accomplish this is to assign a "relief patrol."

(3) Moving Security Zones:

(a) Military Outloads:

1. MSC Ship/Requirements Loading Summaries will provide precise information on military essential movements. If these data are not available, plan an average of one 2-boat patrol (for escort) for each four military essential berths.

2. Port history should determine the number of boat patrols (for escort) needed to protect the movement of hazardous materials in the port during military outloads.

(b) Other Contingencies: When COTP determines the movement of any protected vessel is threatened in the port area, a moving security zone shall be established. Each moving security zone patrol will require a minimum of two boats (for escort) between the berth and the sea buoy (the limit of the COTP Zone for security operations conducted on internal U.S. waters). See chapter 7, reference (o).

(4) Assign boat patrols, as necessary, for any infrastructure asset if and only if non-Coast Guard forces are assigned on the shoreside and the asset is located on or immediately adjacent to a navigable waterway. Coordination, consistent with program manager's directives, is required.

k. Requirements summary calculations for boat patrols and boat crews, planners should refer to figure 4-1 on the page 4-17 in developing requirements for both capabilities based plans to support military outloads and for requirements based Port Security contingency plans (e.g., the Key Asset Physical Security Plans).

(1) Requirements for Key Asset Protection:

(a) _____ Boat patrols per watch for waterside patrols (4.j.(1)) plus...

(b) +____ Boat patrols per wathc for continuous monitor of fixed security zones at Key Assets, plus...

(c) +____ On-scene relief boat patrols, as needed, plus...

(d) +____ Boat patrols per watch for moving security zones around vessels whose cargo critically sustains a waterfront facility that is a Key Asset =

(e) _____ Boat Patrols per watch.

(f) _____ Total Boat Crew Force Elements for Key Asset protection = (e) above X 4.2 (24 hr coverage, 8 hrs per watch, 40 hr week)

(g) _____ Total Boat Hulls for Key Asset protection = boat patrols per watch ((e) above) times 1.2 (allowing for 20 percent down time)

(2) Requirements for High Volume Passenger Vessel Ports (i.e., MCT Plans):

(a) _____ Boat patrols per watch for waterside harbor patrols (4.j.(1)) plus...

(b) +____ Boat patrols for continuous monitor fixed security zones at passenger terminals (4.j(2)(c)3.) plus...

(c) +____ On-site relief boat patrols, as needed (paragraph 4.j)

(d) +____ Boat patrols for moving security zones around a passenger vessel in high volume passenger vessel ports (paragraph 4.j.(3)(b)) =

(e) _____ Boat patrols per watch.

(f) _____ Total Boat Crew Force Elements for High Volume Passenger Vessel port protection = (4.k.(2)(e) above) X 4.2 (24 hr coverage, 8 hrs per watch, 40 hr week)

(g) _____ Total Boat Hulls for High Volume Passenger Vessel Port protection = boat patrols per watch ((e) above) times 1.2 (allowing for 20 percent down time)

(3) Requirements for Military Outloads in Strategic Ports.

(a) _____ Boat patrols per watch for waterside harbor patrols (4.j.(1)) plus...

(b) +____ Boat patrols for continuous monitor fixed security zones at passenger terminals (4.j.(2)(c)1) plus...

(c) +____ On-site relief boat patrols, as needed (paragraph 4.j)

(d) +____ Boat patrols for moving security zones around military essential vessels, paragraph 4.j.(3)(a) =

(e) _____ Port Security Boat patrols to support military outloads per watch.

(f) _____ Total Port Security Boat Crew Force Elements for Military Outloads in Strategic Ports = (4.k.(3)(e) above X 4.2 (24 hr coverage, 8 hrs per watch, 40 hr week), plus...

(g) +____ Number of additional vessels assigned Priority 1 ATON missions due to disruptions caused by storms and natural disasters =

(h) _____ Total Boat crews required for the protection of military outloads in Strategic Ports.

(i) _____ Total Boat Hulls for the protection of military outloads in Strategic Ports = {boat patrols per watch (k.(3)(e) above) plus ATON vessels (3) (i) times 1.2 replacement factor or ((e) + (g) x 1.2).

1. Boats assigned to Port Security operations shall execute their duties in accordance with the Mission Performance Standards of the Port Safety and Security Program Manager. See paragraph 2.K of COMDTINST M16000.6, Marine Safety Manual, Volume I, Administration and Management.

REQUIREMENT CALCUALTION SUMMARY SHEET

Security OPAREA Descript.	# Reaction Boats	# Screen Boats	# Shallow Draft Boats	TOTAL

FIGURE 4-1

6. Equipment Requirements.

a. To be provided by receiving command (this does not include boat patrol or boat hull relief factors):

Typical On-scene Boat:	4 pers boat	3 pers boat
Boat with outfit	1	1
Ordnance Equipment:		
Pistol	2	1
Rifle	1	1
Shotgun	1	1
M-60 Machine Gun (if applicable)	1	0
Body Armor	4	3
Web/Leather Gear	4	3
Radios:		
VHF/FM Hand Held, DES	1	0
VHF/FM Bracket Mount, DES	2	1
Sets of Foul Weather Gear	4	3
Sets of Exposure Suits /Wet Suits	4	3
Vehicles:		
Pickup Truck, 3/4 Ton	*1	*1

*If operations require and boat is trailerable to operational site.

b. See paragraph 4.E.5.k.(3) for boat hull requirements.

c. Planner Note: Some planners attempt to reduce the number of boat hulls and other required equipment by staggering the on scene relief of boats. This practice is acceptable only if the following information is clearly described in the OPLAN.

(1) How staggered briefings for all oncoming crews will be handled.

(2) How staggered debriefs for all off-going watches will be handled.

7. Mobility and Deployment.

a. The boat crew force element consists of personnel only. It is not self-supporting. It can work at an existing unit, or can be a part of another larger deployable force element (i.e., Port Security Unit).

b. Associated with the boat crews are factors for boats with equipment. Transportation planning is required for the deployment of the boats and associated equipment.

F. Force Element: Command and Control Team - Enlisted. HQPC (G-REP)

1. Applicable Reference Documents.

   a. COMDTINST M1000.6 (series), Personnel Manual, paragraph 4.C.24.
   b. COMDTINST M1414.8 (series), Enlisted Qualifications Manual, Chapter 3

2. Functional Duties.

   a. Provide command and control.

   b. Coordinate planning and operations with supported commander.

3. Personnel. Two enlisted:

   a. Team leader: one enlisted, E-6 or above.
   Required: Certified qualified by district OIC Certification Board or prior OPCEN/VTS Watchstander experience.

   b. Team member: one enlisted, E-5 or E-6.
   Required: Designation as Executive Petty Officer (XPO) by Commandant (G-PE) or prior OPCEN/VTS Watchstander experience.

   c. Optional for both members: Qualification code appropriate to type of command to which assigned or the nature of the contingency.

4. Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
CMD/CNTL TM-ENL	CSM40	TM	P	2

5. Planning Factors for Force List Development.

   a. No additional command and control teams are authorized for existing units. i.e. they already have an OinC and an XPO, they don't need another.

   b. This force element is useful when describing functions performed by exisitng personnel and when creating new units, e.g. Aids to Navigation Teams, to respond to a specific contingency.

6. Equipment Requirements. No additional equipment requirements.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element.

G. Force Element: Command and Control Team - Officer. HQPC (G-REP)

1. Applicable Reference Document. N/A

2. Functional Duties.

   a. Provide command and control.

   b. Coordinate planning and operations with supported commander.

3. Personnel. Two officers:

   a. Team leader: One officer of appropriate rank for unit (Commanding Officer), but junior to commander of superior echelons of command. Required: Experience indicator appropriate to type unit to which assigned and the nature of the contingency.

   b. Team member: One officer (Executive Officer) junior to CO described above. Required: Experience indicator appropriate for type unit to which assigned or the nature of the contingency.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
CMD/CNTL TM-OFF	CSM10	TM	P	2

5. Planning Factors for Force List Development.

   a. No additional command and control teams are authorized for existing units, i.e. they already have a CO and XO and don't need another.

   b. This force element is useful when describing functions performed by exisitng personnel and when creating new units or adding command and control personnel to existing units, e.g. Deputy CCGF pairing with designated CCGF, to respond to a specific contingency. Note: Assignment of a deputy CCGF senior to the CCFG or supporting unit COs is allowed, although not preferred.

6. Equipment Requirements. No additional equipment requirements.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element.

H. Force Element: Command and Control Team - Officer/Enlisted. HQPC (G-REP)

1. Applicable Reference Document. N/A

2. Functional Duties.

   a. Provide command and control.

   b. Coordinate planning and operations with supported commander.

3. Personnel. Two persons: one officer, and one enlisted.

   a. Team leader: one officer, of appropriate rank for unit (Commanding Officer), but junior to commander of superior echelons of command. Required: Experience indicator appropriate to type unit to which assigned and the nature of the contingency.

   b. Team member: One enlisted, E-5 or E-6.
   Required: Designation as OinC or XPO by Commandant (G-PE), or prior OPCEN/VTS Watchstander experience.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
CMD/CNTL TM-O/E	CSM60	TM	P	2

5. Planning Factors for Force List Development.

   a. No additional command and control teams are authorized for existing units, i.e. they already have a CO and XPO and don't need another.

   b. This force element is useful when describing functions performed by exisitng personnel and when creating new units or adding command and control personnel to existing units, e.g. adding a CWO2 and BMC to an existing Station (Commanded by a CWO4) to assist with the coordination of the boats and boat crews brought in to respond to a contingency.

6. Equipment Requirements. No additional equipment requirements.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, be part of another larger deployable force element.

I. Force Element: Command and Control Support - Enlisted. HQPC (G-REP)

1. Applicable Reference Document.

   a. COMDTINST M5312.11, Staffing Standards Manual, Appendix A

2. Functional Duties.

   a. Augment structure of existing or newly established unit.

   b. Apply staff experience to accomplish unit missions.

   c. Supervise and direct personnel involved in operational and support functions.

   d. Serve as Master-at-Arms.

3. Personnel. One enlisted, E-7 through E-9. Required:

   a. Appropriate qualifications for the type of duties anticipated and the nature of the contingency.

   b. EP - pistol qualification is required for persons who will be supervising operational or support personnel whose duties require EP, ER or ES qualifications.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
C2 SUPPORT-ENL	CSM50	ENL	P	1

5. Planning Factors for Force List Development.

   a. Each port commander shall first determine the total number of enlisted personnel required for each unit by rate from all the operating and support sub-unit force elements.

   b. Enter the following table with the numbers determined above to calculate the number of E-7s/E-8s required:

Count No. Billets in Rating	Add No. C2 Support Pers. in Rating
0-3	0
4-12	1
13-15	2
16-22	3
23-28	4
29-32	5
33-37	6
38-41	7
42-44	8
45-48	9
49-57	10
58 or more	11

c. If there are more than 25 people in a specific rating at the newly created unit, add one E-9 for C2 support in addition to the E-7/E-8s added for C2 support.

d. When developing OPLANS consider the need for additional command and control support personnel at newly created units.

6. Equipment Requirements. To be provided by receiving unit:

Ordnance Equipment, if necessary:
*1 Pistol and *1 Set of Body Armor
*1 Set of Web/Leather, Gear
*1 Set of Foul Weather Gear
*1 Set of Safety Equipment and *1 EEBA
Administrative Space
Administrative Equipment:
*1 Storage Locker, *1 Desk, and *1 Chair

*Depends upon local needs.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

J. Force Element: Command and Control Support - Officer. HQPC (G-REP)

1. Applicable Reference Document. N/A

2. Functional Duties.

   a. Augment structure of existing or newly established units.

   b. Apply staff experience to accomplish unit missions.

   c. Supervise and direct personnel involved in operational and support functions.

3. Personnel. One officer, junior to unit CO and XO.

   a. Appropriate qualifications for the type of duties anticipated and the nature of the contingency.

   b. Security clearance appropriate to the classification of reference material.

   c. Small arms qualification is recommended, but not required, for those persons who will be supervising operational or support elements whose duties require EP, ER or ES qualifications.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
C2 SUPPORT-OFF	CSM20	OFF	P	1

5. Planning Factors for Force List Development.

   a. Each port commander shall first determine the total number of additional personnel (above current peacetime authorization) required for each unit from all the sub-unit force elements.

   b. Enter the following table with the numbers determined above to calculate the number of officers required:

Count Total Additional Billets	Add No. C2 Support Officers
0-27	0
28-40	1 (typically a CWO)
41-53	1 (typically a LT)
54-59	2 (typically a LT and CWO)
60 or more	3 (typically a LCDR, LTJG and CWO)

   c. Calculate the number of duty officers/other officer watchstanders needed.

6. Equipment Requirements. To be provided by receiving unit:

Ordnance Equipment, if necessary:
*1 Pistol
*1 Body Armor
*1 Set of Web/Leather Gear
*1 Set of Foul Weather Gear
*1 Set of Safety Equipment
*1 EEBA
Administrative Space
Administrative Equipment:
*1 Storage Looker, *1 Desk, *1 Chair

*Depends upon local needs.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

K. Force Element: Commercial Vessel Safety Support. HQPC (G-MP)

1. Applicable Reference Documents.

   a. COMDTINST M16000.7 (series), Marine Safety Manual, Vol. II - Material Inspection
   b. COMDTINST M1414.9 (series), Enlisted Qualifications Code Manual
   c. 46 CFR Chapter 1

2. Functional Duties. Assist marine inspectors (Section 4.AC.) in the performance of their functional duties.

3. Personnel. One person.

   a. Either an active duty marine inspector trainee; or

   b. A reservist with prior inspection qualifications; or

   c. Any enlisted, E-4 or above, assistant marine inspector qualified:

      (1) FA - Assistant Hull Inspector (HI); or
      (2) FB - Assistant Machinery Inspector (MI).

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
CVS SUP	HAK10	ISP	P	1

5. Planning Factors for Force List Development. CVS support personnel will be assigned with Marine Inspectors and Ready Reserve Fleet Activation Teams in the performance of their functional duties.

6. Equipment Requirements. To be provided by receiving command:

   1 Set of Foul Weather Gear
   1 Set of Safety Equipment
   1 EEBA

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or can be deployed with marine inspectors to overseas locations that can provide suitable support.

L. Force Element: Communications Support. HQPC (G-TC)

1. Applicable Reference Documents.

   a. COMDTINST M2000.3 (series), Telecommunications Manual
   b. COMDTINST M5312.11 (series), Staffing Standard Manual (section 28.A.)
   c. COMDTINST M1414.8 (series), Enlisted Quals Manual (para. 2.H.4, 3.B.18)

2. Functional Duties.

   a. Transmit, receive, process, and record communications with reliability, security, and speed.

   b. Monitor pertinent frequency bands to ensure merchant vessel compliance with radio station control measures to prevent unauthorized transmissions and interference with military/vital communications.

   c. Operate assigned equipment.

   d. Maintain required records.

3. Personnel. Enlisted, E-4 or above, as prescribed in Table I to Section 28.A. to COMDTINST M5312.11 (series). Required:

   a. RM rating.

   b. CO certified to supervise or stand a communications watch.

   c. TOP SECRET security clearance.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
COMMS SUPPORT	6AP21	ENL	P	1

5. Planning Factors for Force List Development.

   a. New RM position requirements shall use the standard of 4.2 RMs per position - round up to next whole number.

   b. For existing units, where the number of positions remains unchanged, additional communications support requirements may be necessary.

      (1) Assign two RMs per watch to the existing teams at each district and major communications centers.

      (2) Document and assign other additional teams as identified by the operational commander (i.e., during exercises, etc.).

6. Equipment Requirements. None for existing units. Force elements which need communications support shall identify additional equipment requirements.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

M. Force Element: Crisis Action Team (CAT). HQPC (G-RER)

1. Applicable Reference Documents.

   a. COMDTINST 1601.2 (series), Crisis Staffing Procedures
   b. COMDTINST M3020.14 (series), JOPES Vol. IV, Crisis Action System

2. Functional Duties. Provide core expertise to Area/District Commanders; Commander, Coast Guard Forces, or other operational commander:

   a. Relieve regular watchstanders of the responsibility for monitoring a crisis situation and status of forces assigned to the command.

   b. Research applicable plans, directives, and other documents involved, evaluate possible courses of action, and provide timely recommendations to the operational commander.

   c. Provide assistance in generating Operations Orders (OPORDS) during time-sensitive evolutions.

   d. Guide the execution of all action directed by the operational commander or other operational authorities.

   e. Prepare reports, message traffic, and correspondence.

   f. Act as the single point of contact for all matters relating to the crisis situation.

   g. Coordinate with normal staff elements to ensure that no conflict exists between crisis and non-crisis operations.

3. Personnel. Three to eight officers, depending on the nature of the crisis and the normal staffing level of the command. At a minimum, the CAT should be comprised of a chairman and two team members. For more complex or severe situations, up to eight members should be assigned to the CAT. In either case, the CAT requires access to special staff points of contact for legal issues and public affairs.

   a. Team Chairman: Officer, O-4 or above. The CAT should be chaired by a senior officer of the command with substantial operational experience. Required:

      (1) 40 - Marine Safety General, 43 - Port Contingency Planning, 73 - Readiness or 70 - Operations -General experience.
      (2) SECRET security clearance.

   b. Deputy Team Chairman: Officer O-3 or above. (Optional member.) Required:

      (1) 40 - Marine Safety General, 43 - Port Contingency Planning, 73 - Readiness or 70 - Operations -General experience.

      (2) SECRET security clearance.

c. Team Member: Officer, O-2 or above. Required:

(1) 43 - Port Contingency Planning experience.
(2) SECRET security clearance.

d. Team Member: Officer, O-2 or above. Required:

(1) 42 - Port Safety experience.
(2) SECRET security clearance.

e. Team Member: Officer, O-2 or above. (Optional member.) Required:

(1) 10 - Personnel - General experience.
(2) SECRET security clearance.

f. Team Member: Officer, O-2 or above. (Optional member.) Required:

(1) 76 - Intelligence experience.
(2) SECRET security clearance.

g. Team Member: Officer, O-2 or above. (Optional member.) Required:

(1) 20 - Management - General or 27 Management Contingency/Defense or 30 Comptrollership experience.
(2) SECRET security clearance.

h. Team Member: Officer, O-2 or above. (Optional member.) Required:

(1) 74 - Communications experience.
(2) SECRET security clearance.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
CAT	CSM30	TM	P	3-8

5. Planning Factors for Force List Development.

a. Twenty-four hour coverage, 12 hour watch per team requires two teams for each receiving command.

b. CATs may be assigned to other activities where active duty and reserve augmented peacetime staffs do not enable the commander to fully implement the local contingency staffing concept.

6. Equipment Requirements. To be provided by the receiving unit as needed, determined on a case by case basis dependent upon activities anticipated. In all cases, work space and administrative equipment shall be made available consistent with increased watch personnel and

operations tempo. Items to consider include a GSA approved safe (for classified material), filing cabinet, bookcase, reference library, tables, desks, chairs, a typewriter, consumables (pens, paper, floppy disks, etc.), and secure and non-secure telecommunications. These items need not be prepositioned, but must be readily available for immediate operation.

7. Mobility and Deployment. This team consists of personnel only. They may deploy to overseas locations with suitable support. They are not self-administering and can be transported by any means available to meet the supported commands' needs.

N. Force Element: Data Processing Support Team. HQPC (G-TC)

1. Applicable Reference Documents.

   a. COMDTINST M5230.8 (series), Automated Data Processing (ADP) Plan
   b. COMDTINST M1414.8 (series), Enlisted Quals Manual (2.H.1., 3.C.3.)

2. Functional Duties.

   a. Design, develop, test, and implement ADP systems to support operations command and control, and strategic and tactical planning and analysis for employment of Coast Guard forces.

   b. Derive data from existing systems, using special processing, such as screening for errors, detection of patterns, forecasting of resource needs and performance levels, determination of practical performance standards and evaluation of impacts for alternative strategies or tactics.

3. Personnel. Four persons: one officer, three enlisted.

   a. Team Leader/System Manager: Officer, O-3 to O-5.

      (1) Required:

         (a) 22 - Data Processing experience.
         (b) Two years ADP project management experience.
         (c) SECRET clearance; TOP SECRET if working with WWMCCS.

      (2) Optional:

         (a) Knowledge of WWMCCS (Headquarters and Areas only).
         (b) Knowledge of hardware and software at mobilization site.
         (c) 73 - Readiness.
         (d) Engineering, mathematics, physics, operations research, or similar background.
         (e) Knowledge of CG personnel and mobilization ADP systems.
         (f) Experience with computer simulation and statistical data processing.
         (g) Current skills in program coding.

   b. Programmers: Three enlisted (all typically DP rating).

      (1) Senior Programmer: Enlisted, E-6 or above.

      (2) Programmers: Two enlisted, E-6 or below.

      (3) Required for all programmers:

         (a) DP rating or CD - Computer Applications Programmer or CE - Assembly Language Programmer.
         (b) SECRET clearance.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
DATA PROC. SUP	6AN10	TM	P	4

5. Planning Factors for Force List Development. Teams will supplement operations at existing data processing facilities during mobilization.

   a. Assign four additional teams to Coast Guard Headquarters; and both area commander's staffs.

   b. Assign two additional teams to each district staff.

   c. Assign two additional teams to both MLC staffs

6. Equipment Requirements. To be provided by receiving unit:

Automated Data Processing:
   * Standard Terminal
   * Other Terminal
Administrative Space
Administrative Equipment:
   *1 Filing Cabinet
   *1 Bookcase
   *1 Table
   *2 Desk
   *4 Chair

*Depends on local needs.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

O. Force Element: Dental Support Team. HQPC (G-KRM)

1. Applicable Reference Documents.

   a. COMDTINST M6000.1 (series), Medical Manual
   b. COMDTINST M5312.11 (series), Staffing Standards Manual (Sec. 28.G.)
   c. COMDTINST M1414.8 (series), Enlisted Quals Manual (Sec. 2.L., B.12)

2. Functional Duties. Provide routine and emergency dental services.

3. Personnel. Three persons: one officer, two enlisted.

   a. Team Leader: Officer, O-3 and above. Required: Licensed Dentist.

   b. Team Members: Two enlisted, E-4 or above. Required: HS rating.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
DENTAL SUP TM	FAW30	TM	P	3

5. Planning Factors for Force List Development. One dental officer is assigned for every 700 Coast Guard members who are expected to generate 2.5 dental visits per year. Dental technicians are assigned on the following ratios to dental officers 1.75:1 (minimum) to 2:1 (maximum).

   a. The team will work during normal working hours except on an emergency basis.

   b. Teams will be utilized in areas with large concentrations of personnel and which have existing Coast Guard dental facilities. Dental personnel requirements shall be based on total personnel requirements for the geographic area covered.

   c. Assign one dental support team per planning factors as detailed in Table I, Section 28.C. to COMDTINST M5312.11 (series) at each base, support center, or other major unit with an existing dental clinic.

6. Equipment Requirements. To be provided by receiving unit: Appropriate administrative and dental spaces, and administrative and dental equipment to meet requirements (to be determined by planner).

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

P. Force Element: Electronics Support Team. HQPC (G-TC)

1. Applicable Reference Documents.

   a. COMDTINST M10550.25 (series), Electronics Manual

2. Functional Duties.

   a. Maintain and repair electronic equipment.

   b. Install, maintain, and repair all types of communications equipment.

3. Personnel. Three enlisted (typically ET or TT ratings).

   a. Team Leader: Enlisted, E-7, E-8, or E-9.

   b. Other Team Members: Enlisted, E-4 to E-6.

   c. All Team Members combined for total capability.

      (1) ET or TT rating (two ETs and one TT, or two TTs and one ET).
      (2) TOP SECRET security clearance.
      (3) Crypto repair qualification.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
ELEC SUP TM	EAP30	TM	P	3

5. Planning Factors for Force List Development. For 24-hour coverage assign:

   a. Three and one-half additional teams at each major communications center.

   b. Two additional teams at field units with no major comms center.

   c. Two additional teams at each Support Center.

   d. Two teams at each district office.

   e. One additional team at each MLC.

6. Equipment Requirements. Electronics maintenance equipment set to be provided by receiving unit or deployable force element:

   3 Sets of Foul Weather Gear
   1 Set of Electronic Equipment

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

Q. Force Element: Engineering Support Team. HQPC (G-ENE)

1. Applicable Reference Documents.

   a. COMDTINST M1414.8 (series), Enlisted Qualifications Manual

2. Functional Duties. Perform engineering support at applicable CG shore unit.

   a. Operate, maintain, and repair unit machinery, electrical equipment, and physical structures.

   b. Perform preventive maintenance and associated corrective maintenance, for unit small boats and appropriate maintenance on unit vehicles. Perform facility maintenance.

3. Personnel. Five enlisted.

   a. Team Leader: Enlisted, E-6 or above. Required: MK, DC or EM rating.

   b. Team Members:

      (1) Two enlisted, E-4 or above. Required: MK rating.
      (2) One enlisted, E-4 or above. Required: DC rating.
      (3) One enlisted, E-4 or above. Required: EM rating.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
ENG SUP TM	4AP40	TM	P	5

5. Planning Factors for Force List Development.

   a. Engineering support requirements shall be based on requirements for boat hulls and vehicles. Refer to paragraph 4.E.6.b. (boat crew force element) for the number of boat hulls that were determined from boat hulls required. Add up the vehicle requirements from the various force elements in Chapter 4.

   b. Assign one team for every 5 boats and one team for every 20 vehicles, or combinations thereof. Round to nearest whole number with a minimum of one additional team.

   c. Industrial and engineering support facilities which will be tasked, during contingencies, with providing emergency mechanical assistance during other than normal working hours shall be augmented accordingly. Add 2 teams is a single shift is added and 4 teams if a third shift is needed.

6. Equipment Requirements. To be provided by receiving unit:

5 Sets of Foul Weather Gear
1 Set of Engineering Equipment
1 Set of Electrical Equipment
5 Sets of Safety Equipment

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

R. Force Element: Environmental Health Support Team. HQPC (G-KSE)

1. Applicable Reference Document.

   a. COMDTINST M6000.1 (series), Medical Manual
   b. COMDTINST M5100.47, Safety and Environmental Health Manual

2. Functional Duties. Augment the Safety and Environmental Health Branch at the MLC by providing support in identification, evaluation, and control of biological, chemical, and physical agents that affect operational readiness by causing sickness, disease or significant discomfort.

3. Personnel. Two persons: one officer, one enlisted.

   a. Team Leader: Officer, O-2 or above. Required: Environmental Health Officer.

   b. Other Team Member: Enlisted, E-7 or above. Required: HS Rating-PMT qualified.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
ENV HLTH SUP TM	FAQ10	TM	P	2

5. Planning Factors for Force List Development. Assign one additional team to each Maintenance and Logistic Command impacted by the contingency..

6. Equipment Requirements. To be provided by each receiving unit:

Administrative Space
Administrative Equipment:
- *1 Filing Cabinet
- *1 Table
- *1 Desk
- *2 Chair
- *1 Typewriter

Field Test Equipment
- 1 Chlorine Test Kit
- 1 Milipore Filter Bacteriological Kit
- 2 Probe Thermometers
- 2 Flashlights

*Depends upon local needs.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

S. Force Element: Explosives Handling Team. HQPC (G-MPS)

1. Applicable Reference Documents.

   a. 33 USC 1221 et seq., Ports and Waterways Safety Act
   b. 46 USC 170, Dangerous Cargo Act
   c. 49 USC 1801, Hazardous Materials Transportation Act
   d. 33 CFR 126
   e. 49 CFR 170-177
   f. International Maritime Dangerous Goods (IMDG) Code
   g. DOT-E 3498, 11 December 1990
   h. COMDTINST M16000.5 (series), Marine Safety Manual, Vol. I - Administration and Management.
   i. COMDTINST M16000.6 (series), Marine Safety Manual, Vol. II - Material Inspection
   j. COMDTINST M16000.13 (series), Marine Safety Manual, Vol. VIII - Classified Supplement

2. Functional Duties. Conduct the following functional duties for the loading and discharge of military explosives.

   a. Assist in the processing of a Form CG 4260, "Application and Permit to Handle Hazardous Materials" for each transfer of military explosives.

   b. Conduct pre-load and discharge inspections of vessels and facilities used to handle, transfer and stow military explosives.

   c. Supervise vessel and facility activities from beginning to end of each military explosives transfers.

3. Personnel. Eight enlisted.

   a. Team leader: One enlisted, E-6 or above. Required:

      (1) EB-Explosive Handling Team-Supervisor, completion of MST&Q booklet for OIC-Explosives Handling Supervisor Detail.

      (2) SECRET Clearance.

      Optional: PS rating with EB qual code, MST&Q booklet, & Secret clearance.

   b. Seven team members: Enlisted, E-4 or above. Required:

      (1) EA-Explosives Loading - Hatch Supervisor required for 5 of 7 members, optional for remainder.

      (2) EU or EV required for 2 of 7 members, optional for remainder.

      Optional: PS rating with EA qual code and EB MST&Q booklet.

4. Planning Codes.

Force Element Short Title	UTC	ULN	DEPID	Persons
EHTM	GAL30	TM	P	8

5. Planning Factors for Force List Development.

a. The Captain of the Port will conduct continuous supervision of all munitions handling involving commercial vessels or U.S. Government civilian manned vessels transferring military explosives.

b. For each military outload, one team can supervise one vessel working six hatches or container/barge equivalent, for 8 hours. Calculations for the total number of teams required shall be based upon the scheduled simultaneous loading/discharging of vessels with military munitions within the port.

c. Explosives Handling Team may be assigned to supervise the transfer of military explosives to and from DOD facilities if all of the following conditions are met:

(1) The commander of the DOD facility requests C.G. supervisory assistance from Commandant (G-MPS) via the COTP and District Commander;

(2) Commandant (G-MPS) approves the request; and

(3) The COTP has adequate personnel and material resources on hand to supervise the transfer.

d. Calculations:

(1) Number of simultaneous break bulk vessel loads _____ times 4.2 equals _____ total teams required.

(2) For containerized explosives and explosives on board LASH/SEABEE barges, 1 team is required per vessel for a 24 hour period.

(3) Total teams required: Add (1) and (2) above.

6. Equipment Requirements. To be provided by receiving command:

Radios:
(3) VHF/FM hand held (intrinsically safe)
(2) 1 VHF/FM vehicle mount
8 sets foul weather gear
8 sets of personal safety equipment
1 each 9 passenger vehicle, as appropriate
Copies of regulations, other references as appropriate

7. Mobility and Deployment. This team consists of personnel only that can deploy to Continental U.S., Alaska, Hawaii, and territories where suitable service support can be provided. The team is not self-supporting. It can deploy overseas only as an element of a larger, self sustaining unit.

T. Force Element: Facility Inspection/Survey Team. HQPC (G-MPS)

1. Applicable Reference Documents.

   a. 33 CFR 6
   b. 33 CFR 126
   c. 33 CFR 154
   d. 33 CFR 156
   e. 46 CFR Subchapter D
   f. 46 CFR 151
   g. 46 CFR 153
   h. COMDTINST M16000.5 (series), Marine Safety Manual, Vol. I - Administration and Management.
   i. COMDTINST M16000.6 (series), Marine Safety Manual, Vol. II - Material Inspection
   j. COMDTINST M16000.11 (series), Marine Safety Manual, Vol. VI - Ports and Waterways Activities
   k. COMDTINST M16000.12 (series), Marine Safety Manual, Vol. VII - Port Security

2. Functional Duties.

   a. Enforce regulations pertaining to the handling and storage of hazardous materials, see references (a) through (g).

   b. Conduct an annual inspection of non-DOD designated waterfront facilities within the COTP zone in accordance with para. 2.K of reference (h) and chapter 22 of reference (i).

   c. Conduct a biennial survey of non-DOD waterfront facilities in accordance with para. 2.K of reference (h), para 1.C. of reference (j) and para. 2.C of reference (k). During periods of heightened threats, identify to the facility operator the measures necessary to enhance safety and security standards.

   d. Investigate accidents at waterfront facilities as directed by the COTP.

   e. Survey and inspect passenger terminals within the port area.

   f. Using the facility security checklist provided in chapter 2 of reference (k), assist the STARC in conducting its Key Asset vulnerability survey of assets located immediately adjacent to navigable waterways.

3. Personnel. Three persons. One officer and two enlisted.

   a. One Team Leader: Officer, O-3 or below or CWO.
   Required: 42 and SECRET security clearance.

   b. One Team Members: Enlisted E-4 or above.

      (1) EV - Facility Inspection/Survey Team (FI/ST).

(2) EU - Facility Inspection (FI).

c. One Team Members: Enlisted E-4 or above.

(1) EV - Facility Inspection/Survey Team

(2) EQ - Port Physical Security Specialist

d. Optional for both team leader and team members: PS rating or MST rating and FI MST&Q booklet.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
FAC INSP/SURV	QSK50	TM	P	3

5. Planning Factors for Force List Development.

a. Strategic Ports: At least one team will be assigned to each strategic port. It shall conduct a facility security survey for port facilities according to the following schedule:

(1) By C+2: All facilities where outloads of initially deploying forces are conducted.

(2) By c+30: All waterfront facilities in close proximity to military outload operations. ("Close proximity" indicates geographic proximity or the potential for damage to a protected asset due to a catastrophic hazardous materials incident by another vessel or facility in the port.) Teams will perform security surveys of all remaining facilities in order of priority.

(3) Every 30 days during a major regional contingency overseas: Follow-up surveys of all waterfront facilities surveyed under paragraphs (1) and (2) above.

(4) Daily: Spot checks of military essential and critical commercial facilities.

b. Key Assets: Assign one team per port where Key Assets are located immediately adjacent to a navigable waterway only. For Coast Guard roles in the Key Asset Protection Program (KAPP), see chapter 9 of reference (k).

(1) Initial Surveys: When the STARC requests Coast Guard assistance in conducting a Key Asset Vulnerability Survey, one team member (using the Facility Security Checklist of Chapter 2 of reference (k)) should accompany STARC security personnel.

(2) Biennial Follow-up Surveys: When the STARC requests Coast Guard assistance in conducting its biennial follow-up survey of Key Assets located immediately adjacent to a navigable waterway, one team member will accompany STARC security personnel.

(3) For Strategic Ports, the FI/ST capability should be documented in the capabilities based Defense Operations portion of the port level oplan. The FI/ST requirement alone will be documented in the requirements based KAPP portion of the oplan.

(4) For ports responsible for Key Assets that are not Strategic Ports, the requirements for FI/ST will be documented in the requirements based KAPP portion of the port level oplan.

c. One team is required for ports that meet ALL of the criteria of a "high volume passenger vessel port":

(1) The port handles 100,000 or more passenger visits, arrivals or departures per year; and

(2) At least one passenger vessel regularly calls that meets all of the following:

(a) 100 gross tons or more;

(b) Over 65 feet in length;

(c) Carries over 12 passengers; and

(d) Embarks or disembarks passengers for voyages on the high seas that last 24 hours or more in duration.

d. Average time required for facility surveys, inspections, and spot checks as calculated from Port Safety Activities Report (PSAR) data:

(1) Dry cargo facilities:

Initial security survey and inspection = 5.5 pers hrs* (from PSAR data) + 3 pers hrs (increased security) + 1 pers hrs (facility operator briefing) = 9.5 hrs.

Follow-up monthly inspection = 3.2 pers hrs.

Daily spot check = 0.7 pers hrs.

* "pers hrs": personnel hours

(2) Bulk Liquid Facilities:

Initial security survey and inspection = 7.2 pers hrs (from QAR data) + 3 pers hrs (increased security) + 1 pers hr (facility operator briefing) = 11.2 pers hrs.

Follow-up monthly inspection = 3.9 pers hrs.

Daily spot check = 0.7 pers hrs.

e. Calculations.

(1) Determine the number of military essential and critical commercial facilities in the COTP zone.

(2) For C+2: Calculate the number of teams required to initially survey all facilities (military essential and critical commercial facilities):

(a) NO. Dry Cargo Facilities _____ X 9.5 pers hrs = _____ pers hrs.

(b) NO. Bulk Liquid Facilities _____ X 11.2 pers hrs = _____ pers hrs.

(c) [(a) + (b)]/18 pers hrs per team per day = _____ team days (provides for 2 hours travel time per watch).

(d) [(c)] team days /2 days = _____ Teams.

(3) For C+30: Calculate the number of teams required to inspect waterfront faacilities in close proximity:

(a) NO. of Dry Cargo Facilities _____ x 9.5 pers hrs = ____ pers hrs.

(b) NO. Bulk Bulk Liquid Facilities _____ X 11.2 pers hrs = _____ pers hrs.

(c) [(a) + (b)]/18 pers hrs per team per day = _____ team days (provides for 2 hours travel time per watch).

(d) [(c)] team days /20 days = _____ Teams.

(4) Use which ever is greater, C+30 Teams or C+2 Teams, minimum of one team.

(5) Calculate the number of teams required to conduct follow-up monthly inspections and daily spot checks at all facilities.

(a) NO. Dry Cargo Facilities _____ X 3.2 pers hrs = _____ pers hrs/mo. dry cargo inspections.

(b) NO. Bulk Liquid Facilities _____ X 3.9 pers hrs = _____ pers hrs/mo. Bulk Liquid inspections.

(c) No. Dry Cargo Facilities + NO. Bulk Liquid Facilities _____ X 0.7 pers hrs/day X 22 days = _____ No. pers hrs/mo. spot checks.

(d) [(a) + (b) + (c)]/396 = _____ total teams needed for follow-up inspections (provides for 2 hour travel time per watch). (396 = 22 days/month x 18 hours/day)

6. Equipment Requirements. To be provided by receiving CCGF/COTP:

Ordnance Equipment
- 3 pistols
- 3 Sets of Body Armor
- 3 Sets of Web/Leather Gear

Radios:
- 1 VHF/FM Hand-held, DES (Intrinsically Safe)
- 1 VHF/FM Bracket Mount, DES

3 Sets of Foul Weather Gear
3 Sets of Safety Equipment
Sets of Respiratory Protection Equipment:
- 3 EEBAs

Vehicles:
- 1 Sedan

1 Copy of 33 CFR

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element (i.e., Port Security Unit), or be deployed overseas independently. If deployed independently, support must be provided by the gaining command. The team is not self-administering and can be transported by any means available.

U. Force Element: General Support Team. HQPC (G-REP)

1. Applicable Reference Documents.

   a. COMDTINST M1414.8 (series), Enlisted Quals Manual (Section 2.D.)

2. Functional Duties.

   a. Perform duties as unit mess attendant.

   b. Perform general unit maintenance, and other duties as assigned.

3. Personnel. Three enlisted, E-2 or E-3.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
GEN SUP TM	ZAN30	TM	P	3

5. Planning Factors for Force List Development.

   a. Mess attendant planning factors. Assign one team for every 100 persons authorized to subsist per CG (non-operator) operated dining facility.

   b. General unit maintenance planning factors. Assign one team for every 100 military personnel required.

   c. Calculations:

      (1) Persons authorized to subsist _____ divided by 100 (round to next whole number = _____ teams required for mess attendant duties.

      (2) Total military personnel _____ divided by 100 (round to next whole number) = _____ teams required for unit maintenance.

      (3) Add applicable paragraphs 5.c.(1) and (2) above = _____ Total teams required.

6. Equipment Requirements. To be provided by receiving unit:

   3 Sets of Foul Weather Gear

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit or be part of another larger deployable force element.

V. Force Element: Intelligence Team. HQPC (G-OIN)

1. Applicable Reference Documents.

   a. COMDTINST MS 3800.1, Coast Guard Intelligence Manual
   b. COMDTINST M3810.3 (draft), Coast Guard Operational Intelligence Support to the Maritime Defense Zones
   c. COMDTINST 3821.5A (series), Intelligence Collection and Reporting by Coast Guard units
   d. COMDTINST 3870.1C (series), Investigations and Security Training
   e. COMDTINST M3810.1A (series), JRS-Joint Reports, JCS Pub 6, Vol. II, Part 10

2. Functional Duties. The team is a part of the operational commander's staff. It analysis intelligence but does not conduct field operations.

   a. Develop and manage intelligence requirements.

   b. Analyze information collected and produce intelligence products.

   c. Conduct pre- and post-patrol operational intelligence briefs as required.

3. Personnel. Because of the varied activity levels of intelligence teams at different commands, different compositions will be required at districts and ports. Commanders shall determine security requirements, but as a minimum, all personnel should have a valid Single Scope Background Investigation (SSBI) on file.

   a. Headquarters team: 5 persons (All officers).

      (1) Team Leader: Officer, O-4. Required: 76 - Intelligence.

      (2) Four Team Members:

         (a) One officer, O-3. Required: 76 - Intelligence
         (b) Three officers, O-3 or below. Required: 76 - Intelligence.

   b. Area Team: 12 persons (4 officers and 8 enlisted).

      (1) Team Leader: Officer, O-4 or below. Required: 76 - Intelligence.

      (2) Team Members:

         (a) One officer, O-3. Required: 76-Intelligence.
         (b) Two officers, O-3 or below. Required: 76 - Intelligence.
         (c) Six enlisted, E-5 or above. Required: HK - Intelligence Specialist.
         (d) Two enlisted, E-4 or above. Required: YN.

c. Port Team: 5 persons (1 officer and 4 enlisted).

(1) Team Leader: Officer, O-3 or below. Required: 76 Intelligence.

(2) Four Team Members:

(a) Three enlisted, E-5 or above. Required: HK - Intelligence specialist.
(b) One enlisted, E-4 or above. Required: YN.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
INTEL HQ	PAL60	TM	P	5
INTEL AREA	PAL61	TM	P	12
INTEL TM PORT	PAL62	TM	P	5

5. Planning Factors for Force List Development.

a. These teams are designed to augment existing staffs which are taxed due to a crisis occurring. Not all teams need to be activated for every contingency.

b. The Headquarters team will fill the Crisis Action Center (CAC) G-2 position.

c. The Area team will be allocated to the Area Commander, who will then deploy the team as desired. Part of the team may be retained at the Area level to support the Area Intelligence staff, with the remainder apportioned to the District most effected by the contingency. Conversely, the Area team may be divided into up to smaller segments to support multiple Districts if required.

6. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. ADP, communications and other equipment support must be provided by the gaining command.

W. Force Element: Investigations Team. HQPC (G-OIS)

1. Applicable Reference Documents.

   a. COMDTINST M5527.1 (series), Investigations Manual
   b. COMDTINST 3821.5 (series), Intelligence Collection and Reporting by Coast Guard Units
   c. COMDTINST M3810.3 (draft), Coast Guard Operational Intelligence Support to the Maritime Defense Zones
   d. COMDTINST 5520.5 (series), Investigative Assistance

2. Functional Duties.

   a. Conduct criminal, counter-intelligence, law enforcement and background investigations.

   b. Maintain liaison and coordinate counter-intelligence information collection and activities with military, federal and local intelligence and law enforcement agencies.

   c. Conduct overt and covert human intelligence collection activities.

   d. Conduct protective service operations.

   e. Report counter-intelligence and other human intelligence as required.

3. Personnel. Eight persons (1 officer and 7 enlisted or 8 enlisted). All personnel require a TOP SECRET security clearance.

   a. Team Leader: E7 to O-5. Required: 76-Intelligence or 42-Port Security or HA - Special Agent

   b. Six Team Members: Enlisted, E-5 or above. Required:

      (1) IV rating or HA - Special Agent.
      (2) EP - pistol qualified and ES - shotgun qualified.
      (3) Three members shall be qualified with the SMG.

   c. One Team Member: Enlisted, E-4 or above. Required: YN or SK rating.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
INVEST TM	PAL70	TM	P	8

5. Planning Factors for Force List Development.

   a. As a minimum, two teams should be assigned to Headquarters.

b. Minimum number of teams for Districts are as follows:
D1 - 3; D2 - 2; D5 - 3; D7 - 3; D8 - 3; D9 - 2
D11 -3; D13 - 1; D14 - 1; D17 - 1

c. Personnel will be utilized only in the United States and its possessions, unless otherwise directed. As determined by the receiving command, personnel can expect to be on 24 hour call.

6. Equipment Requirements. To be provided by receiving unit:

Administrative Space
Administrative Equipment:
- 1 GSA Approved Safe, 4 drawer
- 1 Filing Cabinet
- 1 Storage Locker
- 8 Desks
- 8 Chairs
- 2 Typewriters

ADP Equipment:
- 2 Word Processors
- 4 Portable Word Processors

Ordnance Equipment:
- 8 Pistols w/600 rounds of ammunition each
- 2 Shotguns w/200 rounds of 00 buck shells each
- 8 Sets of Body Armor (threat level type 2)
- 3 Night Vision Devices
- 1 Weapons Container
- 2 9mm Sub-machinegun (SMG) with 1000 rounds of ammunition each

Communications Equipment:
- 7 VHF-FM Hand Held Radios (DES) with earpieces
- 3 VHF Bracket Mounted Radios (DES)
- 8 Digital Display Pagers
- 8 Distress Signal Devices
- 4 Portable Cellular Telephones
- 3 Vehicular Cellular Telephones

Vehicles
- 2 Four Door LE Sedans (medium class or larger) (Law Enforcement Package)
- 1 Nine Passenger Van
- 1 Auto Tool Kit per Vehicle
- 1 First Aid Kit per Vehicle
- 1 gross Flex Handcuffs or equivalent per Team
- 1 Rotating Blue Law Enforcement Magnetic Light per Vehicle

8 Sets of Foul Weather Gear
2 Sets of Investigative Equipment

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command. The team can be self-administering but normally works on staff that provides administrative support.

X. Force Element: Legal Support Team. HQPC (G-LMI)

1. Applicable Reference Documents.

   a. COMDTINST M5800.5 (series), Courts of Military Review Procedures
   b. COMDTINST 5801.3 (series), Legal Assistance Program
   c. COMDTINST M5810.1 (series), Military Justice Manual
   d. COMDTINST M5810.2 (series), General and Special Courts-Martial Trial Guide
   e. COMDTPUB 5850.2, Legal Authorities
   f. COMDTINST M5890.9 (series), Claims and Litigations Manual
   g. Uniform Code of Military Justice (UCMJ)
   h. Manual for Courts-Martial (MCM)

2. Functional Duties.

   a. Support the military justice system by serving as assistant trial counsel, defense counsel, and court reporters in courts-martial, and conducting post-trial reviews.

   b. Support administrative law in such areas as claims adjudication, contracting and procurement.

   c. Support intelligence operations and enforcement of laws and treaties by providing analysis of applicable law.

   d. Advise the Commander on the Law of Armed Conflict and relevant laws, regulations, and treaties associated with military readiness, mobilization, and armed conflict.

   e. Support Coast Guard personnel and their dependents suffering property loss/personal injury as a result of natural disasters through the legal assistance program.

   f. Serve as command legal advisor and/or liaison.

3. Personnel. Four persons: two officers, two enlisted.

   a. Both officers: O-2 or above.

      (1) Required: 04 experience indicator - Legal.
      (2) Optional: certified per article 27(b), UCMJ.

   b. Both enlisted: Yeoman, E-4 or above. Required: 08 - Verbatim Reporter and Legal Clerk.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
LEG SUP TM	LAN70	TM	P	4

5. Planning Factors for Force List Development. Assign at least one team to existing staffs at each affected MLC or district office.

6. Equipment Requirements. To be provided by receiving unit:

Automated Data Processing:
*Standard Terminal
*Other Terminal
Administrative Space
Administrative Equipment:
*2 Filing Cabinet
*2 Bookcase
*4 Desk
*4 Chair
*2 Typewriter

*Depends upon local needs.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

Y. Force Element: Liaison Officer - Other Service/Agency. HQPC (G-REP)

1. Applicable Reference Documents. Applicable memorandums of agreement or understanding.

2. Functional Duties. Provide for exchange of information and coordination of actions between the Coast Guard and other services or agencies.

3. Personnel. One officer, O-3 and above.

   a. Required:

      (1) Experience in particular Coast Guard fields which will be required of the position.
      (2) Security clearance appropriate to duties/position assigned.
      (3) OCONUS deployment training (e.g. language skills, State Department brief/country orientation).

   b. Optional: 73 - Readiness or 43 Contingency Planner.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
LNO OTH SVC	LSM40	OFF	P	1

5. Planning Factors for Force List Development.

   a. Liaison should be considered with the following local commands and agencies depending on the nature of the contingency:

      Commander in Chief (CINC)
      Naval Component Commander (NCC)
      Environmental Protection Agency (EPA)
      Federal On-Scene Coordinator (FOSC)(if other than CG) for oil spills
      Military Traffic Management Command (MTMC)
      Military Sealift Command (MSC)
      Naval Control of Shipping Organization (NCSO)
      State Area Commander (STARC)
      Maritime Administration (MARAD), including Federal Port Controller
      Federal Emergency Management Agency (FEMA)
      Defense Logistic Agency (DLA)
      U.S. Army Corps of Engineers (COE)
      Federal Bureau of Investigations (FBI)
      U.S. Customs Service
      Department of Justice (DOJ)
      National Marine Fisheries Service (NMFS)
      Fire and police departments (local and state)

b. Assign a liaison officer with local commands or agencies listed above, or as deemed appropriate by the area or district commander. If liaison has previously been established, then cite governing MOU or MOA. Depending on the size and complexity of the command or agency to which the element will be assigned, one officer may be assigned to liaison with more than one command and/or agency.

6. Equipment Requirements. To be provided by receiving unit:

Administrative Space
Administrative Equipment:
*GSA Approved Safe (for classified material)
*Bookcase
*Desk
*Chair

*Depends upon local needs.

7. Mobility and Deployment. Liaison officers are personnel only. They can deploy to any overseas location that can provide suitable support. Liaison officers are not self-administering and should be transported by air using TOA (AMC) or organic (Coast Guard) provided transportation.

Z. Force Element: Logistics Support HQPC (G-ELM)

1. Applicable Reference Documents.

   a. COMDTINST M4400.19 (series), Supply Policy and Procedures Manual
   b. COMDTINST M4200.13 (series), Small Purchase Handbook
   c. COMDTINST M4610.5 (series), Transportation of Freight
   d. COMDTINST M4610.5 (series), Comptroller Manual, Vol. I, Accounting
   e. COMDTINST M4500.5 (series), Property Management Manual
   f. DOD 4145-19-R-1, Storage and Materials Handling Manual
   g. COMDTINST M1414.8 (series), Enlisted Quals Manual (para. 2.H.5.)
   h. COMDTINST M5312.11 (series), Staffing Standards Manual

2. Functional Duties. Budget and accounting for purchases and requisitions; receive, inspect, issue, stow, and preserve, package, ship, dispose of, reutilize, and perform inventory control for all property, equipage, supplies and materials belonging to the Coast Guard. Operate office labor-saving devices (e.g. computers, calculators) and material handling equipment (e.g. forklift, pallet jack); and perform administrative support duties (e.g., prepare and maintain required forms, records, publications, correspondence, reports and files).

3. Personnel. Enlisted, E-4 or above as prescribed in Table I to Section 28.A. to COMDTINST M5312.11 (series). Required: SK rating.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
LOGIST SUP	L8N70	ENL	P	1

5. Planning Factors for Force List Development.

   a. One storekeeper per 38 personnel supported utilizing standard fractional manpower cutoffs, but the needs of each unit must be evaluated on an individual basis.

   b. Total number of personnel required divided by 38 = _____ total SKs required for logistics support.

   c. Take the number from 5.b above and enter tables in paragraphs 4.b. and c. of the Command and Control Support - Enlisted force element to determine the number of E-7 through E-9s required.

   d. Additional SK requirements are identified in other force elements.

6. Equipment Requirements. To be provided by receiving unit:

Automated Data Processing:
* Standard Terminal
* Other Terminal
Storeroom Space
Administrative Equipment:
* Filing Cabinet
* Desk
* Chair
* Typewriter
* Calculator

* Depends upon local needs.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, minimum paygrade is E5 (SK2). Support must be provided by the gaining command.

AA. Force Element: Marine Environmental Response Team. HQPC (G-MP)

1. Applicable Reference Documents.

   a. 33 U.S.C. 1221 et seq., Ports and Waterways Safety Act
   b. 33 U.S.C. 1321, Federal Water Pollution Control Act
   c. 42 U.S.C. 9601 et seq., CERCLA
   d. 40 CFR 300, National Contingency Plan
   e. COMDTINST M16000.11, Marine Safety Manual, Volume VI (Ports and Waterways Activities)
   f. COMDTINST M16465.29, CERCLA Response Authority and Associated Coast Guard Policies
   g. COMDTINST m16465.30, Policy Guidance for Response to Hazardous Chemical Releases
   h. Applicable regional and local contingency response policy directives
   i. 29 CFR 1910.120 (OSHA Regulations)
   j. NFPA 472 Competencies for Hazardous Materials Responders
   k. NFPA 1500 Incident Command System

2. Functional Duties.

   a. Ensure that timely, adequate removal efforts are undertaken to control the spread of discharge and to mitigate harmful environmental effects by operating both from shore and open water as necessary.

   b. Enforce standards of occupational safety established by the Environmental Response Safety Officer.

   c. Prioritize the areas to be cleaned up, and recommend to the OSC the degree of removal that is required.

   d. Ensure that the cleanup techniques and equipment used on scene effectively prevent additional damage to or interference with waterways users (including wildlife), and recommend more effective removal methods.

   e. Address requests for additional resources to the OSC Command Post.

   f. Forward field observations of the response area to the OSC Command Post.

   g. Conduct pollution investigations as appropriate.

3. Personnel. Seven persons, one team leader and six team members.

   a. Team Leader: Officer, O-3 or below to Enlisted E-6.

      (1) Required:

(a) Officer: 42 - Port Safety/Environmental Protection - General or 40 - Marine Safety - General.
(b) ET - On-Scene Coordinator's Representative.
(c) Port Operations Department Course or Marine Safety Petty Officers Course.

(2) Optional:

(a) EI - Boarding Officer
(b) ED - Pollution Investigator
(c) EK - Harbor Safety Officer

b. Six team members: Enlisted

(1) Required:

(a) ED - Pollution Investigator

(2) Optional:

(a) EI - Boarding Officer
(b) EK - Harbor Safety Officer
(c) EU - Facility Inspector

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
MEP TM	NDN70	TM	P	7

5. Planning Factors for Force List Development.

a. One 7-person team may be assigned to observe no more than three cleanup sites in one 8-hour period. During the deliberate planning process, assign teams at those locations identified as natural pockets for pollution under the "most probable major discharge and maximum most probable worst case discharge" contingency identified in local directives.

b. Every 500 yards of impacted shoreline where cleanup operations are being undertaken should be monitored by two team members. Each MEP Team, therefore, may respond to no more than three sites at one time.

c. Assume 16-hour coverage to allow for daylight cleanup, relief on site and contractor documentation. Where local conditions provide longer than one half day of light, assume 24-hour coverage.

d. Force element calculations:

(1) Number of natural pockets = ____monitor sites.

(2) _____monitor sites/3 monitor sites per team per watch = _____teams per watch.

(3) Assume a 40 hour work week (at 8 hours per watch, 6 days per week).

(a) Use a planning factor of 2.8 to ensure 16-hour coverage for 7 days, round up.

_____teams per watch X 2.8 watches = total teams required, round up.

(b) Use a planning factor of 5.3 to ensure 24-hour coverage for 7 days.

_____teams per watch X 5.3 watches = total teams required, round up.

(c) Use either paragraph (a) or (b) above depending on whether the contractor hired to clean up the spill is working 16 or 24 hour days.

6. Equipment Requirements.

a. Communications Equipment.

(1) VHF/FM, Hand Held, Intrinsically Safe - 4 ea.
(2) VHF/FM, Bracket Mount - 4 ea.
(3) Cellular Telephone - 1 ea. (optional)

b. Vehicles.

(1) Sedan - 1 ea.
(2) Pickup Truck - 3 ea. (4 wheel drive, if possible)
(3) Vehicle safety equipment

c. MEP Equipment.

(1) Pollution Investigator Kit - 4 ea.
(2) Personal Protection Equipment - 7 ea.
(3) First Aid Response - 3 ea.

7. Mobility and Deployment. This force element consists of personnel and hand carried equipment. It is not self-supporting. It can work at an existing unit, can be part of a larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command. The team is not self-administering and can be transported by any means available.

AB. Force Element: Marine Firefighting Coordinator. HQPC (G-MPS)

1. Applicable Reference Documents.

   a. 33 CFR 126
   b. 49 CFR 171
   c. Section 28-L of COMDTINST M5312.11, Staffing Standards Manual
   d. COMDTINST M16000.11, Marine Safety Manual, Volume VI (Ports and Waterways Activities)

2. Functional Duties.

   a. Coordinate Coast Guard resources with local authorities, civil defense agencies, and military resources in any planning, training, or emergency response duties performed in accordance with references (a) through (d), as directed by the COTP.

   b. Act as the on-scene coordinator's representative during fire incidents in the port.

   c. Provide expertise and advise the COTP concerning fire incidents in the port.

3. Personnel. One enlisted, E-7 to E-9 or one CWO.

   a. Required: EY qualifications code, Marine Firefighting Coordinator.

   b. Optional:

      (1) Thorough knowledge of U.S. Maritime Administration's "Marine Firefighting, Fire Prevention and Fire Safety".

      (2) Attend Coast Guard conducted, sponsored, or recognized firefighting course every four years.

      (3) Thorough knowledge of National Fire Prevention Association (NFPA) 472 and NFPA 1405.

      (4) SECRET security clearance.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	PERSONS
MARINE F/F COORD	QAK20	ENL	P	1

5. Planning Factors for Force List Development. Assign one Marine Firefighting Coordinator in each Strategic Port only.

6. Equipment Requirements. To be provided by receiving COTP:

Radios:
   1 VHF/FM Hand-held, DES (Intrinsically Safe)
   1 VHF/FM Bracket Mount, DES
1 Set of Foul Weather Gear
1 Set of Safety Equipment
1 Set of Firefighting Equipment
Administration Space
Administration Equipment:
1 Filing Cabinet
1 Bookcase
1 Storage Locker
1 Desk
1 Chair
Vehicles:
   1 Sedan
Copy of COTP firefighting contingency Plan
One copy of 33 CFR (complete set)
One copy of 49 CFR (complete set)

7. Mobility and Deployment.

   a. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of a larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command. The person is not self-administering and can be transported by any means available.

   b. This force element deploys to the respective civil fire service Emergency Operations Center.

AC. Force Element: Marine Inspector. HQPC (G-MP)

1. Applicable Reference Documents.

   a. COMDTINST M16000.7 (series), Marine Safety Manual, Vol. II - Material Inspection
   b. 46 CFR, Chapter 1

2. Functional Duties.

   a. Provide inspection resources to activate vessels of the Ready Reserve Force and attend other fleet elements of the Navy's Strategic Sealift Program. Refer to Force Element Description in this chaper for RRF Activation Team for RRF requirements.

   b. Administer and enforce vessel materiel standards relative to the operation and maintenance of U.S. flag vessels, offshore platforms on the outer continental shelf, and foreign flag merchant vessels subject to U.S. jurisdiction.

3. Personnel. One person. Required: Fully Qualified Marine Inspector.

   a. Optional: 45 - Commercial Vessel Inspection or 41 - Commercial Vessel Safety. Refer to Section concerning RRF Activation Team for typical qualifications.

   b. Routine vessel inspection may require one or more qualified inspectors. Other activities, such as shop inspections or deficiency correction actions, may allow the use of less than fully qualified marine inspectors.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
MARINE INSPECT	HAK30	ISP	P	1

5. Planning Factors for Force List Development.

   a. Refer to Section on RRF Activation Team requirements.

   b. If requested by the appropriate naval component commander, assign or designate marine inspection personnel to meet overseas requirements.

   c. Marine inspection personnel may be temporarily assigned by area commanders to other OCMI zones/ports to meet temporary or "surge" requirements.

d. Marine inspection is a type of duty that can be defined from start to finish. However, the number of marine inspectors required is dependent upon the number, type and service of vessels involved during a particular time period. Once one job is completed, the marine inspector can move on to another. Determine unit's anticipated inspection workload to determine requirements.

6. Equipment Requirements. To be provided by receiving unit:

1 Set of Foul Weather Gear
1 Set of Safety Equipment
1 EEBD
1 Vessel Inspection Kit
Administrative Space
Administrative Equipment:
*Filing Cabinet
*Storage Locker
*Desk
*Chair
Vehicles:
*Sedan
Reference materials (MSM, CFR, NVICs, local policy guidance, Industrial pubs relating to vessel operation and construction)

*Depends upon local needs.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

AD. Force Element: Marine Investigator. HQPC (G-MP)

1. Applicable Reference Documents.

   a. COMDTINST M16000.10 (series), Marine Safety Manual, Vol. V - Investigations

2. Functional Duties.

   a. Initiate and conduct investigations of reported marine accidents, casualties, significant pollution incidents, acts of sabotage, violations of laws and regulations, misconduct, negligence, or incompetence in U.S. ports.

   b. Initiate and conduct suspension and revocation proceedings against seamen's licenses and/or documents where violations of laws and regulations, acts of misconduct, negligence, or incompetence have occurred.

3. Personnel. One officer: W-2 (typically a PSS, BOSN, MAT or ENG) to O-5, or one enlisted E-6 to E-8.

   a. Required: 47 - Marine Investigation.

   b. Optional:

      (1) 41 - Commercial Vessel Safety - General.
      (2) Qualified hull or boiler inspector.
      (3) ED - Pollution Investigator or EO - Violation Investigator or FN - Suspension and Revocation Investigator or - Casualty Investigator.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
MARINE INVEST.	HAL30	OFF/ENL	P	1

5. Planning Factors for Force List Development.

   a. The number of marine investigators required should be based on anticipated workload. Determine existing workload in the categories listed on the following page.

      (1) Coastal ports experiencing a military outload should assume a 30% increase in marine investigator requirements for the duration of the outload.
      (2) Inland ports experiencing a military outload should assume a 20% increase in marine investigator requirements for the duration of the outload.

(3) For major hurricanes, plan on a 200% increase in the size of the investigations division, (e.g. if there were normally 2 investigators add 4 investigators to form a 6 person division). Plan to keep that many investigators for a two month period.

(4) In other situations plan to adjust investigators in direct proportion to any anticipated increase/decrease in commercial traffic. Document this data in your plans. Also use the Military Sealift Command's Ship/Requirements Loading Summary in applicable ports.

b. Calculations:

(1) The following manhour standards should be used in calculating existing workloads:

Type of Investigation	Manhour Standards
Routine Casualty Inv. (2692)	4.0
Close to file	4.0
Letter of Transmittal	4.0
Voluntary Surrender/Deposit	4.0
Letter of Warning	6.0
Administrative Clemency	10.0
Hearing	32.0
Routine Narrative	100.0
Formal Narrative	170.0
Marine Board	1500.0

When calculating workload use 1739 manhours per man year to determine existing investigators based upon the Commandant's Staffing Standards.

(2) Determine the number of Marine Investigators presently required _____ X _____% of anticipated workload = _____ total additional investigators required (round to nearest whole number). Adjust as necessary to reflect local data.

6. Equipment Requirements. To be provided by receiving command:

Radios:
- 1 VHF/FM Hand-held (Intrinsically Safe)
- 1 VHF/FM Bracket Mount

1 Set of Foul Weather Gear
1 Set of Safety Equipment
1 EEBA
1 Marine Investigation Kit
1 Alcohol Testing Detection Set
Access to the Marine Safety Information System (MSIS)
Administrative Space
Administrative Equipment:
- * Filing Cabinet
- * Storage Locker

1 Bookcase
1 Desk
1 Chair
* Typewriter

Vehicles:
1 Sedan
Vehicle Safety Equipment

1 copy of applicable CFRs and USCs

*Depends upon local needs.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It works at an existing unit and normally does not deploy.

AE. Force Element: Medical Support Team. HQPC (G-KRM)

1. Applicable Reference Documents.

   a. COMDTINST M6000.1 (series), Medical Manual
   b. COMDTINST M5312.11 (series), Staffing Standard Manual (Sec. 28.F.)
   c. COMDTINST M1414.8 (series), Enlisted Quals Manual (Sec 2.L., 3.B.12.)
   d. COMDTINST M10470.10 (series), Rescue and Survival Systems Manual

2. Functional Duties. Provide routine and emergency medical services.

3. Personnel. Three persons: one officer, two enlisted.

   a. Team Leader: Officer, CWO2 or above. Required: PYA - Physician's Assistant speciality. Physicians Assistants should have graduated from an accredited program, hold a baccalaureate degree and received certification from the National Commission of Certification of Physician Assistants (NCCPA).

   b. First team member: Enlisted, E-6 to E-9. Required: HS rating.

   c. Second team member: Enlisted, E-4 to E-6. Required: HS rating and qualified as Emergency Medical Technician (EMT).

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
MED SUP TM	FAQ20	TM	P	3

5. Planning Factors for Force List Development.

   a. When planning new medical facilities or the upgrade of existing facilities, self sufficiency of the Coast Guard to provide its own health service is a primary consideration. Dependent health services are not normally provided.

   b. For readiness planning purposes, outpatient care will be the only medical aid available. Medical support teams will provide health services during normal working hours except in emergencies.

   c. When the Medical Support Team is deployed, reserve HS personnel may be assigned to a clinic, freeing up more experienced HSs for team deployment.

   d. Assign one medical support team for each 400 personnel supported by geographic area (base, support center, etc.). Round to nearest whole number.

      Total military personnel _____ divided by 400 = _____ teams.

6. Equipment Requirements. To be provided by receiving unit:

Administrative Space
Administrative Equipment:
- 1 Filing Cabinet
- 1 Table
- 2 Desks
- 3 Chairs
- 1 Typewriter
- 1 EMT Kit (see reference (d))

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

AF. Force Element: Merchant Personnel Licensing Team. HQPC (G-MP)

1. Applicable Reference Documents.

   a. COMDTINST M16000.8 (series), Marine Safety Manual, Vol. III - Marine Industrial Personnel

2. Functional Duties. Verify qualifications of Merchant Marine personnel and issue appropriate licenses or merchant marine documents.

3. Personnel. Three persons: one officer, two enlisted.

   a. Team leader: Officer, O-2 to O-4 or CWO. Required: 40 - Marine Safety - General, or 45 - Vessel Inspection.

   b. First team member: Enlisted, E-6 or above. Required:

      (1) MK, BM, or QM rating.

      (2) FE - License and Seaman Document Examiner or FG - License and Document Evaluator.

   c. Team Member: Enlisted, E-4 or above (typically a YN rating).

   d. Optional: Team leader and first team member possess complimentary experience backgrounds; e.g., an engineering officer with a BMC or QMC, or a deck officer with an MKC.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
MER PER LIC TM	LAL90	TM	P	3

5. Planning Factors for Force List Development.

   a. CCGFs shall assign one additional team to each existing regional examination center (REC) located at MSOs/MIOs.

   b. Districts and CCGFs shall identify the need for additional teams based on anticipated shipping activity in their zones. Factors to be considered include numbers and locations of RRF vessels, and essential and critical facilities/terminals, and the proximity and capability of existing RECS. These needs shall be identified and justified in the plan.

6. Equipment Requirements. To be provided by receiving unit:

	Existing REC	New
Administrative Space		
Administrative Equipment:		
GSA Approved Safes	0	1
Filing Cabinets	1	1
Bookcases	0	1
Tables	0	4
Desks	*	3
Chairs	*	7
Typewriters	*	2

*Depends upon local needs.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

AG. Force Element: Mobile Operations Center Detail. HQPC (G-NRS)

1. Applicable Reference Documents.

   a. COMDTINST M16120.5 (series)/NWP-19 (series), National SAR Manual
   b. NWP 19-1 (series), Navy Search and Rescue Manual
   c. NWP 19-2 (series), Combat Search and Rescue Procedures
   d. NWP 19-3 (series), Deep Ocean Search, Inspection and Recovery
   e. Merchant Ship SAR Manual (MERSAR), International Maritime Organization, 1986, London, England.
   f. COMDTINST M16130.2 (series), CG Addendum to the National Search and Rescue Manual

2. Functional Duties. Coordinate requests for Coast Guard assistance and resources, and monitor Coast Guard activities, all in overseas locations.

3. Personnel. Nine persons, five officers and four enlisted. All personnel should have SECRET security clearance.

   a. Command and control. Two persons.

      (1) Detail leader: One officer, O-4 or above. Required: 70 - Operations General.

      (2) Detail assistant: One officer, O-3 or above. Required: 71 Search and Rescue.

   b. Three Operations Center Watch Teams. Six persons, three officers and three enlisted. See Section 4.AJ. for qualifications.

   c. Administrative support. One enlisted (YN): E-5 or above.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
MOBL OPCEN DTL	9SR40	DTL	P	9

5. Planning Factors for Force List Development.

   a. It is assumed that the Coast Guard has a sufficient number of OPCENs in place (areas, districts and groups) to cover all U.S. ports and territories, therefore no additional requirements are anticipated. These OPCENs shall not be augmented with Mobile OPCEN Details.

   b. Assign additional details as required by the appropriate naval component commander to meet overseas requirements. The detail may be assigned as either an independent detail or as the Coast Guard contingent of an existing Joint Rescue Coordination Center (JRCC).

6. Equipment Requirements. To be provided by receiving command:

Administrative Space
Administrative Equipment:
- 1 Filing Cabinet
- 250 File Folders
- 2 Tables
- 3 Desks
- 7 Chairs
- 1 Telephone facsimile machine
- 1 Typewriter
- 1 Adding Machine/Calculator
- 1 Administrative workstation including the following:
  - 1 CG Standard Workstation with standard bundled software;
  - or
  - 1 DOS computer with Word Processing and communications software
  - 1 Printer and applicable software;
  - 1 Modem with dedicated telecommunications link
- Applicable charts and plotting equipment
- Appropriate voice communications equipment (to be developed by planner)

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command. The detail is self-administering.

AH. Force Element: Mobile Support Unit. HQPC (G-OCU)

1. Applicable Reference Documents. Refer to description of "Patrol Boat Squadron" in Chapter 2 of this manual.

2. Functional Duties.

   a. Provide shore-side logistical support for one or two collocated deployed four boat 110' squadrons with spare parts, tools, and shore facilities.

   b. Provide shore-side logistical support to CG cutters and personnel operating as disaster recovery teams or mitigating major pollution incidents where local CG repair and support services are destroyed or are otherwise unavailable.

3. Personnel. Eight persons: one officer, seven enlisted.

   a. Team Leader: Officer, O-3 or O-2.

      (1) 32/33/34 - Fiscal Operations designator, or Supply and Inventory Management, or Supply Operations.

   b. Team Supervisor: Enlisted, E-7 or above. Machinery Technician Chief or above.

   c. Team Members: Enlisted, E-4 to E-6 in the following specialties;

      1 ET
      1 SK
      1 DC
      2 MK
      1 EM

      (1) At least 3 of the team members must have drivers licenses for tractor trailers.

      (2) At least 3 of the team members must be fork lift operators.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
MOBILE SUPPORT UNIT (MSU)	9MSU2	SU	1	8

5. Planning Factors for Force List Development.

   a. MSU, as currently configured, is designed to support the B Class 110' Patrol Boat. When considering vessel deployment options, the B Class should be the vessel of choice, due to support considerations.

b. MSU must be deployed before or concurrently with the patrol boat squadron, so as to arrive in theater ahead of the cutters to set up shop.

c. One MSU can support two deployed squadrons, if they are colocated.

d. There are two MSUs available for deployment.

e. Deploying both MSUs to the same geographic location would reduce staffing levels by one Lieutenant (O-3), since a single O-3 could direct both teams.

6. Equipment: An MSU comes with two stake-body trucks (Fords, GVW 19,000 pounds) and 11 trailers for each deployed squadron. These trailers are outfitted with an MK shop, GM shop, ET/EM shop, admin space, equipment, and spare parts transport/storage. Large tents are set up shore-side with a 160KW generator providing shore power for up to two cutters.

7. Mobility and Deployment. This force element consists of personnel and equipment. All equipment is C-130 transportable and is located at the CG Yard in Baltimore, MD. CG Reserve Unit Chesapeake Bay maintains and operates the equipment. It is self administering but not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas. If deployed, berthing, messing, security, and communications support must be provided by the gaining command.

AI. Force Element: Operations Center Watch Team. HQPC (G-NRS)

1. Applicable Reference Documents. Refer to references in Section 4.AH.

2. Functional Duties.

   a. Coordinate requests for Coast Guard assistance and resources, and monitor Coast Guard field activities.

   b. Maintain current logistics information.

3. Personnel. Two persons: one officer, one enlisted.

   a. Team Leader: Officer, O-3 or O-4 (area or district OPCENs); or Officer, W-2 to O-3 (port level OPCENs only).

      (1) 71 - Search and Rescue and completion of PS3 correspondence course, and previous OPCEN experience, or;

      (2) 42 - Port Safety and Security/Environmental Response - General and completion of CGI SAR correspondence course, and previous OPCEN experience, or;

      (3) Completion of SAR and PS3 correspondence courses and previous OPCEN experience.

   b. Team Member: Enlisted, E-5 or above. Required: QM rating (all OPCENs) or HR - RCC Assistant Controller (area and district OPCENs only). FM and RD ratings are allowed at Group/Port OPCENs.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
OPCEN WATCH TM	XAR10	TM	P	2

5. Planning Factors for Force List Development.

   a. 24-hour coverage required - 8-hour watch per team.

   b. Assign one additional team per watch to each area, district and port level operations center when the tempo of opertions in that region is anticipated to exceed the existing teams' capacity.

   c. Additional teams X 4.2 watches (rounded to next whole number) for 24-hour coverage = # total additional teams.

6. Equipment Requirements. None.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting, can work at an existing unit, be part of a larger deployable force element (i.e., Mobile Operations Center Detail), or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

AJ. Force Element: Operations Center Support. HQPC (G-NRS)

1. Applicable Reference Document. N/A

2. Functional Duties. Provide assistance as required in an operations center.

   a. Maintain navigational charts, publications, and instruments.

   b. Supplement the watch or perform day work.

3. Personnel. One enlisted, E-4 or above (typically QM, BM or RD ratings).

   a. Required: Demonstrated familiarity with messages, Rules of the Road, communications and plotting procedures and equipment.

   b. Optional:

      (1) Completion of Coast Guard SAR and PS3 correspondence courses.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Person
OPCEN SUP	XAN61	ENL	P	1

5. Planning Factors for Force List Development.

   a. In addition to existing operations center support personnel, assign one additional support persons per area, district and port level operations center when an augmenting Operations Center Watch Team has been assigned.

   b. Based on local needs, justify additional teams as necessary and document in the OPLAN.

6. Equipment Requirements. None.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element.

AK. Force Element: Physical Security Team. HQPC (G-MPS)

1. Applicable Reference Documents.

   a. 50 U.S.C. 191
   b. 33 CFR 1
   c. 33 CFR 6
   d. 33 CFR 125
   e. 33 CFR 126
   f. 33 CFR 160
   g. 33 CFR 165
   h. COMDTINST M16000.12, Marine Safety Manual, Volume VII (Port Security)

2. Functional Duties. This team can conduct the following duties as boat crewmember or when on patrol along the waterfront.

   a. Enforce shoreside and waterside limited access areas.

   b. Report suspicious activities in the port area to non-Coast Guard security forces or local police agencies, and respond to the incident after the arrival of these non-Coast Guard forces.

   c. Monitor waterfront facilities, including passenger terminals, to ensure that facility guards are performing duties satisfactorily and to evaluate the effectiveness of physical security measures.

   d. Assist Port Operations in the prevention of sabotage or infiltration of vessels and/or waterfront facilities.

   e. Conduct oversight of DOD cargo security access control.

3. Personnel. 2 Enlisted.

   a. Team Leader: Enlisted E-5 or above.

      (1) Required:

         (a) EQ - Port Physical Security Specialist or
             EM - Physical Security Team

         (b) EP - pistol qual, ER - rifle qual, and
             ES - shot gun qual.

         (c) SECRET security clearance.

      (2) Optional: PS Rating

   b. Team Member: Enlisted, E-4 or above

      (1) Required:

         (a) EQ - Port Physical Security Specialist or
             EM - Physical Security Team

(b) EP - pistol qual, ER - rifle qual, and ES - shot gun qual.

(c) SECRET security clearance.

(2) Optional:

(a) PS Rating

(b) KA - Law Enforcement Patrolman, HB - Security Specialist, or KB - Law Enforcement Investigator.

(c) EU - Facility Inspector, or EV - Facility Inspection/Survey Team

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Personnel
PHYS SEC TM	QSL51	TM	P	2

5. Planning Factors for Force List Development.

a. Strategic Ports: Facilities used for military outloads and facilities that handle and stow hazardous materials in close proximity to a military outload facility shall assign Physical Security Teams as follows:

(1) Assign a sufficient number of teams to conduct concurrently:

(a) One complete shoreside patrol of the port area every 24 hours.

(b) At least two random security checks of protected facilities every 24 hours.

(c) The requirements of para. 5.a.(1)(a) and 5.a.(1)(b) can be satisfied through consolidated shoreside patrols.

(2) Assign one team per military outload facility to monitor the adequacy of the civilian guard force when hazardous materials are transferred, stored or handled. (Research Port Safety Activities Report data for hazardous material operations; add 10% to estimate hazardous material surge requirements for the facility.)

(3) Document the need for these teams, as well as the teams required in para. 5.b below in the capabilities based Military Outload portion of the port level oplan.

b. For all other Port Security contingencies, including the protection of Key Assets and "high volume passenger vessels ports", assign teams as follows:

(1) Within a Coast Guard established limited access area, conduct a 24 hour monitor of non-military security forces during periods of heightened, specified threats.

(2) Assign teams to conduct 24 hour shoreside patrols of the port area for the duration of the threat.

(3) Document the requirement for Physical Security Teams that support KAPP in the KAPP portion of the port level oplan. Do not include shortfalls. Note: By program manager directive, Coast Guard shoreside security personnel will not conduct security monitors at Key Assets during the implementation of KAPP Physical Security Plans. See Chapter 9 of reference (h).

(4) High Volume Passenger Vessel Ports: Document the requirement and shortfalls for Physical Security Teams that support the Maritime Counterterrorism portion of the port level oplan. (High volume = 100,000 revenue cruise passengers annually).

c. Assign Physical Security Teams at a commercial facility to substitute or augment facility security forces under the following, LIMITED conditions.

(1) There is a heightened, specified threat against the facility, or the consequence of loss of the facility would severely impact a national security interest;

(2) The facility owner/operator or responsible military commander has been advised and is in the process of obtaining the forces and equipment necessary to secure the facility; and

(3) No other forces are available from the local, state or federal level.

d. Standards of time used to generate the force element calculations for "spot checks" and patrols provided below in 5.e:

(1) Average transit time to/from patrol area: 2 hours.

(2) Average time per facility "spot check": 0.5 hour.

(3) Average total time for "spot checks" (6 checks per watch section): 3 hours.

(4) Total transit time between facilities: 3 hours.

(5) Time per watch section: 8 hours.

e. Calculations:

(1) Strategic Ports: Routine security checks and shoreside harbor patrols in support of military outloads as discussed in paragraph 5.a.(1):

Number of outload and hazmat facilities in close proximity divided by 6 facilities spot checked per watch = _____Teams per watch (rounded to the nearest whole

(2) Strategic Ports: Continuous monitors of facility security measures as discussed in para. 5.a.(2):

Number of military outload facilities where/when hazmats are handled, stowed or transferred = _____ Teams per watch.

(3) Other Port Security Contingencies: Continuous monitors of non-military facility security measures as discussed in paras. 5.b.(1) and 5.b.(2):

The number of Coast Guard established limited access areas during periodsof heightened, specified threats = _____Teams per watch

(4) Other Port Security Contingencies: Periodic shoreside harbor patrols as discussed in para. 5.b.(3).

Number of teams needed to complete one shoreside patrol of the affected port area every 24 hours for the duration of the threat = _____Teams per watch.

(5) Requirements for Key Asset protection:

Teams per watch for shoreside harbor patrols (5.e.(4) above) _____ x 4.2 multiplier to ensure 24 hour coverage, 8 hours per watch, 40 hour work week = _____ Total Physical Security Teams required for Key Asset protection.

(6) Requirements for "high volume passenger vessel ports" (i.e., Marine Counterterrorism Contingency plan requirements):

_____ Teams per watch for continuous security monitors (5.e.(3)) above, plus

+_____ Teams per watch for shoreside patrols (5.e.(4)) above ; multiply this sum by 4.2. to ensure 24 hour coverage, 8 hours per watch, 40 hour work week.

x 4.2 = _____ Total Physical Security Teams required for High Volume Passenger Vessel Port protection.

(7) Requirements for the protection of military outloads in Strategic Ports:

_____ Teams per watch for security checks and shoreside harbor patrols in support of military outloads (5.e.(1)) above, plus ...

+_____ Teams per watch for continuous monitors of facility security measures (5.e.(2)) above; multiply this sum by 4.2. to ensure 24 hour coverage, 8 hours per watch, 40 hour work week.

x 4.2 = _____ Total Physical Security Teams required for Strategic Port protection.

6. Equipment Requirements. To be provided by receiving command for team:

Ordnance Equipment:
- 2 Pistols
- 1 Rifle
- 1 Shotgun
- 2 Sets of Body Armor
- 2 Night Vision Devices
- 2 Sets of Web/Leather Gear

Radios
- 2 VHF/FM Hand-held, DES (Intrinsically Safe)
- 1 VHF/FM Bracket Mount, DES
- 2 Sets of Foul Weather Gear

Vehicles
- 1 Sedan

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit or can be part of another larger deployable force element.

AL. Force Element: Port Operations Support. HQPC (G-MPS)

1. Applicable Reference Documents.

   a. COMDTINST M16000.5, Marine Safety Manual, Volume I (Administration and Management)
   b. COMDTINST M16000.6, Marine Safety Manual, Volume II (Material Inspection)
   c. COMDTINST M16000.11, Marine Safety Manual, Volume VI (Ports and Waterways Activities)
   d. COMDTINST M16000.12, Marine Safety Manual, Volume VII (Port Security)
   e. COMDTINST CM16000.13, Marine Safety Manual, VOLUME VIII (Classified Supplement)

2. Functional Duties. Administrative and record keeping support for the port operations described in references (a) through (e). This force element is intended to support port operations during Military Outloads in Strategic Ports.

   a. Maintain vessel and facility files, including Marine Safety Information System (MSIS) entries and retrievals.

   b. Coordinate a system that controls access of personnel and equipment to facilities and vessels in Strategic Ports. This includes actual operation of the Coast Guard Port Access Control System at waterfront facilities when required by the COTP.

   c. Maintain port operations status boards, watch and recall lists.

   d. Provide general support to the Port Operations Department operations center and perform other duties as directed.

3. Personnel. One enlisted, E-4 to E-6.

   a. Required: MST rating

   b. Optional:

      (1) Graduate of MSPOC (MS400R).

      (2) PS rating and completion of II MST&Q booklet

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
PORTOPS SUPTM	XPOPS	TM	P	1

5. Planning Factors for Force List Development. Teams will supplement operations at existing MSOs/COTPs.

   a. The COTP will establish limited access areas around those portions of a facility where critical military cargoes are handled in Strategic Ports. Limited access areas will require the implementation of a system to control access to these sensitive waterfront areas.

   b. For each port security card initial data entry point, one person is required for a normal 8 hour workday.

   c. One person can perform support within the MSO operations spaces for 8 hours. Each MSO/COTP may receive a maximum of 4 persons for 24 hour operation of the MSO operations office, if required. If multiple MSIS data entry/ retrieval or multiple status board/display areas are required, additional personnel, maximum 1 per watch, may be added.

   d. Calculations for port:

      _____ Administrative and ADP support to Marine Safety-specific operations, plus . . .

      +_____ In-office administrative support to a port access control system =

      _____ Total Port Operations Support Teams needed to support Military Outloads in Strategic Ports only.

6. Equipment Requirements. To be provided by receiving unit:

   Marine Safety Information System (MSIS) Transaction Guides, #1-#13
   MSIS terminal
   Port Access Control System data entry terminal (when deployed by Commandant (G-MPS))
   Status board

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting and can be transported by any means available.

AM. Force Element: Port Safety/Security Boarding Team. HQPC (G-MPS)

1. Applicable Reference Documents.

   a. 33 CFR 1-199
   b. 46 CFR 30-40
   c. 46 CFR 64
   d. 46 CFR 98
   e. 46 CFR 148
   f. 46 CFR 150-154
   g. 49 CFR 171-177
   h. International Maritime Dangerous Goods (IMDG) Code
   i. COMDTINST M16000.5, Marine Safety Manual, Volume I (Administration and Management)
   j. COMDTINST M16000.6, Marine Safety Manual, Volume II (Material Inspection)
   k. COMDTINST M16000.11, Marine Safety Manual, Volume VI (Ports and Waterways Activities)
   l. COMDTINST M16000.12, Marine Safety Manual, Volume VII (Port Security)
   m. COMDTINST CM16000.13, Marine Safety Manual, Volume VIII (Classified Supplement)

2. Functional Duties. Conduct boardings of U.S. and foreign flag vessels in accordance with the standard vessel boarding program for compliance with applicable U.S. and international standards.

   a. Conduct boardings of all vessels subject to the SIV program

   b. Conduct break bulk/dry bulk cargo monitors of vessels carrying, loading or discharging hazardous materials in accordance with the standard vessel boarding program.

   c. Conduct monitoring of vessels loading hazardous materials (HAZMAT) and the Ammunition Basic Load (ABL) of DOD RO-RO cargoes. All other transfers involving military explosives will be conducted by Explosives Handling Teams.

   d. Conduct monitors of bulk liquid cargoes and fuel transfers to and from vessels, including lightering, in accordance with the standard vessel boarding program.

3. Personnel. Two enlisted.

   a. Team leader: One enlisted, E-5 or above.

   b. Team member: One enlisted, E-4 or above.

   c. Required for both members: Completion of BO and EJ MST&Q booklets.

   d. Optional for both members: PS rating.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
PORTOPS BRDGTM	QSK32	TM	P	2

5. Planning Factors for Force List Development. Teams will supplement operations at existing MSOs/COTPs.

a. Coast Guard will continue to conduct boardings of all vessels in accordance with references (a)-(m).

b. For each military loadout of hazmats, one team will be on board the vessel/facility during transfer operations. (See para. 2.c. above).

c. Supervision of vessel transfers of hazmats will require 24 hour Coast Guard presence on board, 8 hours per watch.

d. Calculations:

(1) Packaged, dry bulk and bulk liquid hazmat transfers. From historical Port Safety Activities Report and/or MSIS data, estimate the average number of transfers of each cargo type within the COTP Zone. Using the standard vessel boarding program, identify the number of those transfers which will be required to be monitored, boarded, and/or supervised for all facilities within the zone.

(2) Calculate the total number of personnel hours required to supervise and monitor hazardous materials transfers as follows:

COPH - 9.4 hours per transfer/year

Packaged hazardous materials - 2.7 hours per transfer/year

Bulk liquid transfers - 2.6 hours per monitor/year

(3) Calculate the number of teams required to provide for the total number of personnel hours required.

Total personnel hours/year divided by 1739 equals _____ personnel (round up). _____ Personnel divided by 2 = _____ teams.

(4) Number of facilities scheduled for loadout/resupply _____ times 4.2 teams (for 24 hour operation) equals _____ teams required.

(5) Add totals from paragraphs d.(3) and (4) equals _____ total teams required.

6. Equipment Requirements. To be provided by receiving command:

Radios:
(1) VHF/FM hand held (intrinsically safe)
(2) 1 VHF/FM vehicle mount
2 sets foul weather gear
2 sets of personal safety equipment
2 EEBAs
1 vehicle, as appropriate
1 copy of 33 CFR 1-199
1 copy of 49 CFR 171-177
Copies of other references as appropriate

7. Mobility and Deployment. This team consists of personnel only that can deploy to Continental U.S. and territories where suitable service support can be provided. The team is not self-supporting. It can deploy overseas only as an element of a larger, self sustaining, Coast Guard unit.

AN. Force Element: Public Affairs Officer. HQPC (G-CP)

1. Applicable Reference Documents.

   a. COMDTINST M5728.2 (series), Public Affairs Manual
   b. COMDTINST M5728.3 (series), Public Affairs Officer's Guide

2. Functional Duties.

   a. Serve as liaison between Coast Guard and community and/or other federal, state, or local organizations for information on Coast Guard activities.

   b. Coordinate media activities.

   c. Advise senior Coast Guard officials on public or community relations problems.

3. Personnel. One officer, O-3 and above. Required: 03 experience indicator - Public and International Affairs.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
LNO PUB AFFAIRS	68M50	OFF	P	1

5. Planning Factors for Force List Development.

   a. Assign one additional officer to each major Headquarters unit.

   b. Assign one additional officer to each area and district office.

   c. Assign one officer to each command designated a CCGF.

6. Equipment Requirements. To be provided by receiving unit:

   Administrative Space
   Administrative Equipment:
   - 1 Filing Cabinet
   - 1 Desk
   - 1 Chair
   - 1 Typewriter

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element, or be deployed overseas independently. If deployed independently, support must be provided by the gaining command.

AO. Force Element: Public Affairs Support. HQPC (G-CP)

1. Applicable Reference Documents.

   a. COMDTINST M5728.2 (series), Public Affairs Manual
   b. COMDTINST M1414.8 (series), Enlisted Quals Manual

2. Functional Duties.

   a. Serve as Assistant Public Affairs Officer operating a news office or joint information bureau to provide a wide range of public information about Coast Guard activities.

   b. Assist with coordination of on-scene media coverage of incidents and prepare materials to document such incidents for public information purposes.

   c. Work with counterparts and officials of other federal and local agencies during situation in which the Coast Guard is a participant.

3. Personnel. One Enlisted, E-5 or above. Required: PA rating

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
PUB AFF SUP	LAN40	ENL	P	1

5. Planning Factors for Force List Development.

   a. Assign one officer (UTC 68M50) and two additional PAs (UTC LAN40) to each Area office for a major contingency.

   b. Assign two additional PAs to each district office for a major contingency.

   c. Assign one PA to each command designated a CCGF when stood up.

6. Equipment Requirements. To be provided by receiving unit:

   1 Set of Foul Weather Gear
   1 Set of Safety Equipment
   Administrative Space
   Administrative Equipment:
      1 Storage Locker
      1 Desk and chair
      1 mobile phone
      1 portable computer w/modem
      1 portable computer printer

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element.

AP. Force Element: Recruiting Support. HQPC (G-PRJ)

1. Applicable Reference Documents.

   a. COMDTINST M1100.2 (series), Recruiting Manual
   b. COMDTINST 1100.3 (series), Recruiting Assistance Program

2. Functional Duties. Assist recruiting efforts at Regional Recruiting Commands and Recruiting Offices.

3. Personnel. One enlisted, E-5 or above.

   a. Required: Completion of recruiting school and must have the ability to meet and deal effectively with the public.

   b. Optional:

      (1) 4 years active duty or 6 years reserve duty with the CG.
      (2) JF - Recruiter.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
RECRUIT SUP	LAW50	ENL	P	1

5. Planning Factors for Force List Development.

   a. Commandant (G-PRJ) will determine requirements. Personnel will operate out of existing recruiting offices. The following information applies.

   b. Assign two additional persons to each recruiting office for every 125,000 population served for the entire area of responsibility (maximum of 4 additional persons).

6. Equipment Requirements. To be provided by receiving unit:

   Administrative Space
   Administrative Equipment:
      *1 Filing Cabinet
      *1 Desk
      *1 Chair
      *1 Typewriter
      *1 Adding Machine

   *as needed

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It does not deploy outside of the U.S.

AQ. Force Element: RRF Activation Team. HQPC (G-MP)

1. Applicable Reference Documents.

   a. COMDTINST M16000.7 (series), Marine Safety Manual, Vol. 11 - Materiel Inspection
   b. MARAD Monthly RRF Status Report (message)

2. Functional Duties.

   a. Inspect vessels of the Ready Reserve Force (RRF).

   b. Administer and enforce vessel material standards relative to the operation and maintenance of RRF vessels.

3. Personnel. Various, depending on RRF vessel status assigned by the Maritime Administration (MARAD). Marine Inspectors dealing with activation of "5-day" vessels must be available on a round the clock basis seven days per week until activation is complete. Marine Inspection Teams dealing with activation of "10-day" or "20-day" vessels of the RRF must be available on short notice from MARAD.

   a. "5-day" Status RRF Vessels. Four persons (UTC: HAK40).

      (1) Two officers, qualified Marine Inspectors. One machinery inspector and one hull inspector.

      (2) Two assistants. Either marine inspector trainee, a reservist with prior inspection qualifications, or any petty officer assigned duty as assistant inspector.

   b. "10-day" or "20-day" Status RRF Vessels. Three persons (UTC: HAK41) (third person is optional). Same as above with only one optional assistant.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
RRF ACTIV TM	HAK40	TM	P	4
RRF ACTIV TM	HAK41	TM	P	3

5. Planning Factors for Force List Development.

   a. The number of teams required to activate the RRF depends on the RRF monthly activation schedule maintained by MARAD. This is a dynamic process; vessel locations and their activation status are not constant.

   b. Districts shall contact local MARAD representative in the port concerning Coast Guard involvement in the full activation of the RRF. Determine and document requirements in the CCGF OPLAN.

c. Inspection personnel may be temporarily assigned by area commanders to other OCMI zones/ports to meet temporary or "surge" requirements.

6. Equipment Requirements. To be provided by providing command:

4 (or 3) Sets of Foul Weather Gear
4 (or 3) EEBAs
4 (or 3) Sets of Safety Equipment
1 Vessel Inspection Kit
Vehicles:
Sedan

7. Mobility and Deployment. This team is intended for CONUS use only in ports where the RRF is being activated. The team is not self-administering.

AR. Force Element: Security Police Team. HQPC (G-OIS)

1. Applicable Reference Documents.

   a. COMDTINST M5312.11 (series), Staffing Standards Manual, Section 28.1.
   b. COMDTINST M5530.1A, Physical Security Manual
   c. COMDTINST M3502.3 (series), Vol. VI, Operational Training Exercises

2. Functional Duties.

   a. Protect Coast Guard units, facilities, assets and personnel from damage, destruction, theft or injury, caused by terrorism, sabotage, riots and civil unrest, and other unlawful acts.

   b. Enforce federal laws and regulations, which include UCMJ, and local and state laws, when applicable and authorized by local jurisdiction.

   c. Patrol designated perimeters, areas, structures and activities, and apprehend persons and vehicles gaining or attempting to gain unauthorized access.

   d. Assist in the operation and management of a system of personnel identification and access control, performing essential escort duties, as required.

   e. Monitor protective alarm systems, and as an armed response force, respond to alarm signals or other indications of suspicious activity.

   f. Respond to medical emergencies and provide medical assistance until medical personnel arrive.

   g. Perform other police and security duties as directed.

3. Personnel. 4 enlisted (UTC QSL60).
   Because of varied activity levels of security police teams at different units and commands, different compositions may be required. The number of teams required at each unit and command will also vary with size of the area to be protected, and the population of the unit or command. Required:

   a. EN - Coast Guard Security Police Force.

   b. EP - Pistol Qualified and ER - Rifle Qualified, or ES - Shotgun Qualified.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
UNIT POLSEC TM	QSL60	TM	P	4

5. Planning Factors for Force List Development.

a. The four person security police team should be capable of providing a one person twenty four hour patrol for a small unit (defined as a unit without dedicated security assets or the ability to muster a Security Police Team using existing personnel without severely hampering their operational capabilities).

b. Small units which are collocated should pool security resources. Remote stations may decide to shift boats to the group for security if threatened.

c. Large units and commands may require additional teams to support their needs. The replacement cost of aircraft, parts, material and other assets should be taken into consideration when a force list is developed. Area and District Security Managers are available in the field to assist with this determination, and the Security Policy and Programs Branch is available at the Headquarters level.

6. Equipment Requirements. To be provided by receiving unit:

Ordnance Equipment:
- 2 M-16 rifles w/300 rounds of ammo
- 4 9mm pistols w/100 rounds of ammo each
- 2 Riot Shotgun w/100 rounds of ammo
- 4 sets of Body Armor
- 4 sets of Web/Leather Gear

Communications Equipment:
- 4 VHF-FM Hand Held Radios (DES) with earpieces
- 4 Digital Display Pagers
- 1 Portable Cellular Telephone
- 4 Sets of Foul Weather Gear

Vehicles: 1
- Four wheel drive or sedan, depending on local needs

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, or can be part of another larger deployable force.

AS. Force Element: Subsistence Specialist. HQPC (G-PS)

1. Applicable Reference Documents.

   a. COMDTINST M4061.3 (series), Subsistence Manual
   b. COMDTINST M5312.11 (series), Staffing Standards Manual
   c. COMDTINST M1414.8 (series), Enlisted Quals Manual

2. Functional Duties. Perform or assist with all food service duties. Some of these duties are stated in general terms below.

   a. Ensure availability of required food products and subsistence supplies by planning needs, ordering and inspecting for quantity and quality on receipt, and properly storing such items.

   b. Maintain cleanliness and sanitation of food storerooms, refrigerated spaces, issue rooms, and all food preparation and serving spaces.

   c. Plan balanced menus and maintain records of transactions.

   d. Cook, bake, and otherwise prepare and serve food on established schedules.

   e. Ensure that all equipment is in good working condition.

3. Personnel. One enlisted, E-4 or above.

   a. Required: SS rating.

   b. Optional:

      (1) Ability to operate and assist in managing Coast Guard Dining Facilities, commissioned officers' messes and private messes.

      (2) Ability to train and supervise personnel in all phases of food service operation and the maintenance of all accountable spaces and equipment.

      (3) KM - Subsistence Expert.

      (4) Baker qualification, SS rating qualification code 02.

      (5) Independent Duty qualified, SS rating qualification code 04.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
SUBS SPECIALIST	LAQ41	ENL	P	1

5. Planning Factors for Force List Development.

a. Each commander shall determine a local concept of subsistence support based on a 3 or 4 meal per day requirement at an existing dining facility (CG or contractor operated) or non-industrial facility (NIF) when no dining facility exists. Subsistence specialists will be needed to supplement existing dining facilities when additional personnel are assigned or when the operational tempo of the unit increases.

b. The number of personnel authorized to subsist is the total number of enlisted personnel authorized (add officers and civilians at isolated locations) based on the structured strength (i.e. PAL and CPAL) required to be subsisted by a dining facility. Include all tenant and geographically adjacent commands and units that are subsisting at that dining facility.

c. Use the following table to determine subsistence specialist requirements based on normal support (3 meals per day) at each CG operated dining facility:

Personnel Authorized To Subsist	Normal Support 3 Meals Per Day
1-19	1 (typically 1 E-5)
20-30	2 (typically 1 E-4, 1 E-6)
31-45	3 (typically 1 E-4, 1 E-5, 1 E-6)
46-60	4 (typically 2 E-4s, 1 E-5, 1 E-6)
61-90	5 (typically 2 E-4s, 1 E-5, 1 E-6, 1 E-7)
91-120	6 (typically 3 E-4s, 1 E-5, 1 E-6, 1 E-7)
121-150	7 (typically 3 E-4s, 2 E-5s, 1 E-6, 1 E-7)
151-180	8 (typically 4 E-4s, 2 E-5s, 1 E-6, 1 E-7)
181-240	9 (typically 4 E-4s, 2 E-5s, 2 E-6s, 1 E-7)
241-300	10 (typically 5 E-4s, 2 E-5s, 2 E-6s, 1 E-8)
301-360	11 (typically 5 E-4s, 3 E-5s, 2 E-6s, 1 E-8)
361-420	12 (typically 6 E-4s, 3 E-5s, 2 E-6s, 1 E-8)
421-540	13 (typically 6 E-4s, 3 E-5s, 2 E-6s, 1 E-7, 1 E-8)
541-660	14 (typically 6 E-4s, 4 E-5s, 2 E-6s, 1 E-7, 1 E-8)
661-780	15 (typically 6 E-4s, 4 E-5s, 3 E-6s, 1 E-7, 1 E-8)
781-900	16 (typically 7 E-4s, 4 E-5s, 3 E-6s, 1 E-7, 1 E-9)
901-1020	17 (typically 8 E-4s, 4 E-5s, 3 E-6s, 1 E-7, 1 E-9)
1021-1140	18 (typically 8 E-4s, 5 E-5s, 3 E-6s, 1 E-7, 1 E-9)

d. Use the following table to determine SS requirements based on 24 hour support (4 meals a day) at CG operated dining facility:

Personnel Authorized To Subsist	24 Hour Support 4 Meals Per Day
1-18	2 (typically 1 E-4, 1 E-6)
19-35	4 (typically 3 E-4, 1 E-6)
36-70	5 (typically 3 E-4, 1 E-5, 1 E-6)
71-100	7 (typically 6 E-4s, 1 E-6)
101-200	10 (typically 6 E-43, 3 E-5s, 1 E-6)
201-300	11 (typically 6 E-4s, 5 E-5s, 1 E-6)
301-500*	15 (typically 9 E-4s, 3 E-5s, 3 E-6)

*For every 200 above 500 add 4 additional (typically 3 E-4s, 1 E-5).

e. Once the number of E-4 through E-6s are determined in paragraph 5.c or d., enter tables in paragraphs 5.b. and c. of the Command and Control Support force element to determine the number of E-7s through E-9 supervisors required.

f. Contracted-out CG dining facilities should contain a contract clause requiring contractors to have the capability of serving meals during periods of 24 hour operations when deemed necessary by the government and directed by the contracting officer, as well as a clause to increase staff to meet contingencies. Contracts should be reviewed and, if this clause is missing, work with MLC to get the contract modified. These clauses will then ensure that adequate support will be provided. Specific Subsistence Specialist requirements, for various contingencies, shall be determined by each commander in coordination with current contractor and CG supervisors.

g. Where a CG dining facility does not exist or does not have the capability to meet additional subsistence requirements, each commander shall identify NIFs with messing accommodations capable of meeting those requirements. Only one E-5 (minimum) is required for NIF liaison and assistance. Additional personnel and equipment requirements shall be justified and documented in the OPLAN.

h. Mess attendant staffing requirements are identified in General Support Team - non-rated enlisted requirements.

6. Equipment Requirements. To be provided by receiving unit with a CG dining facility:

One Set of Subsistence Equipment

Consideration should be given to equipment needs during special circumstances such as hurricane relief, where water, electricity, and basic sanitation may not be available. Under such circumstances portable kitchens, potable water, and trailered quarters will be required.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element. Support must be provided by the gaining command. Special equipment will be needed when electricity, water, or sanitation facilities are not available in the geographic area being served.

AT. Force Element: Transportable Communications Center. HQPC (G-TTO)

1. Applicable Reference Documents.

   a. COMDTINST M2000.3 (series), Telecommunications Manual
   b. COMLANTAREA SOP, Annex K

2. Functional Duties. The Transportable Communications Center (TCC) can provide communications support for operational forces (i.e., deployed WPB squadrons without communications support) in remote locations.
   Capabilities:
   Clear and protected voice comms over VHF
   Clear and secure voice comms over UHF and HF
   Weather FAX
   Note: The CG is obtaining 2 next generation TCC's in FY 93. These TCCs will have both voice and data capabilities and will also be deployable in a single C-130.

3. Personnel. Six enlisted required for continuous operations.

   a. One AT: E-5. One Avionics Technician (AT) will accompany the TCC on deployments. The AT's primary duties are to set-up equipment, instruct operators on proper equipment operation and provide on-site equipment maintenance. Although the AT may be used for short periods for operator relief, he will not be used as full-time operators.

   b. Five RMs: one E-6 and four E-5s. Radiomen (RMs) to operate the TCC will be provided or arranged for by the district in which the TCC is deployed.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
TRANS COMCEN	6TCC1	DET	5	6

5. Planning Factors:

   a. The CG has onlt two transportable Communications Centers (AN/TRC-168). Both are under the operational control of Commander Atlantic Area.

   b. TAD cost for the AT will be borne by the area commander.

   c. Aircraft and flight crew expenses are borne by the providing AIRSTA.

   d. TAD cost for RMs to man the TCC during deployment and any other expense related to the TCC will be borne by the requesting district.

6. Equipment Requirements. The TCCs consist of communications shelter and a camper/towing VAN. Telephone lines must be provided if interface with local telephone systems is desired.

7. Mobility and Deployment.

   a. Deployment Requests. The TCCs can be transported via a single C130. If the TCC is deployed via C-130 aircraft, the van and spare fuel cans are limited to only 1/4 tank of gasoline. This restriction limits the endurance of the TCC to a range of approximately 80 miles and three hours of generator operation prior to refueling. Any additional gasoline must be obtained locally.

   b. Request for TCC services must be made by District Commanders for district units or operations. Request for TCC services for Area units or for Area operations will be via the area operations center to the area command control and communication division. For emergency deployments, telephone requests may be made to COMLANTAREA (Att) (212 668-7886) during normal working hours or COMLANTAREA OPCEN (212 668-7055) after hours. Telephone requests must be followed-up by message. Deployment requests for non-emergency situations shall be made at least 30 days in advance, see reference (b).

   c. Support Requirements.

      (1) Status. AIRSTA Clearwater will maintain one TCC in Bravo-6 status at all times to ensure rapid response in an emergency. The towing van is part of the TCC and is maintained in the same status.

      (2) Maintenance. AIRSTA Clearwater is responsible for maintenance of the TCCs and camper/towing vehicles. Districts with a TCC deployed will ensure the unit is maintained at a high level during the deployments and that the interior and exterior are in satisfactory condition prior to return to AIRSTA Clearwater. COMLANTAREA will be notified should a TCC be returned in less than satisfactory condition.

      (3) Power Source. TCCs may be powered using commercial power if available or by the van in lieu of the generator. Each TCC is deployed with a Dodge B-300 camper/towing vehicle and 17 hours of fuel (regular gasoline) for the generator.

AU. Force Element: Visit and Search Detachment. HQPC (G-OLE)

1. Applicable Reference Documents.

   a. FXP 3 (series), Ship Exercises, Z-15-S
   b. COMDTINST M3502.3, Vol. VI, OPTHEX, CG-15/16-M
   c. NWP-9, The Commander's Handbook on the Law of Naval Operations
   d. COMDTINST M16247.38 (series) Maritime Law Enforcement Boarding Officer Professional Qualifications Standards (PQS)

2. Functional Duties. This detachment is intended for employment as part of a military operation and not as a U.S. law enforcement action. The exercise of statutory authorities and compliance with Coast Guard procedures for permission to board will not be applicable and the legality of boardings/seizures will be the province of the supported military commander directing the operation (and his legal staff).

   a. Conduct boardings from either Navy or Coast Guard vessels engaged in quarantine, blockade, or interception operation in support of the military operations being conducted.

   b. Provide advice to the operational commander of the quarantine, blockade, or interdiction operation as to best procedures, operational tactics and the capabilities of assigned Coast Guard personnel and forces.

   c. Provide functional expertise and training to Navy vessels engaged in quarantine, blockade and/or interception operations against noncombatant vessels (merchant, fishing, pleasure craft). Train U. S. Navy and Allied boarding parties to stop, board and search suspect vessels while maintaining adequate safety procedures and self-protection of the boarding party.

   d. This team does not normally operate in U.S. waters.

3. Personnel. Seven persons (minimum of 4 CG personnel with MLE training), one officer and six enlisted. This team is comparable to the peacetime law enforcement detachment (LEDET).

   a. Detail Leader: One Coast Guard officer (W-2 to O-3).

      (1) Required:

         (a) SECRET Clearance.

         (b) Graduate of MLE Boarding Officer Course or satisfactory completion of Boarding Officer Corrsepondence Course and PQS Manual, (ref (d)). This qualification must be recertified every six months.

         (c) Small Arms Qualified.

(2) Recommended: A minimun of 8 hours of hazardous materials awareness training. This training is available, on an adhoc basis, from RTC and will be incorporated into the MLE Boarding Officer course in the future.

b. Boarding Officer. One Coast Guard enlisted, (E-5 or above).

(1) Required:

(a) CONFIDENTIAL Clearance.

(b) HL - Graduate of MLE Boarding Officer Course or satisfactory completion of Boarding Officer Correspondence Course and PQS Manual, (ref (d)). This qualification must be recertified every six months.

(c) EP - Pistol Qualified, ER - Rifle Qualified, and ES - Shotgun Qualified.

(2) Recommended: A minimun of 8 hours of hazardous materials awareness training. This training is available, on an adhoc basis, from RTC and will be incorporated into the MLE Boarding Officer course in the future.

c. Five Boarding Team Members (minimum of 2 CG personnel)

(1) Required:

(a) CONFIDENTIAL Clearance

(b) Satisfactory completion of Boarding Team Member PQS Manual, (ref (d)), and command certification.

(c) EP - Pistol Qualified, ER - Rifle Qualified, and ES - Shotgun Qualified.

(2) Recommended: A minimun of 8 hours of hazardous materials awareness training. This training is available, on an adhoc basis, from RTC and will be incorporated into the MLE Boarding Officer course in the future.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
VISIT/SRCH DET	9VSDT	DET	5	7

5. Planning Factors for Force List Development.

a. Area commanders shall plan for and assign details as needed or requested by appropriate naval component commanders. The apportionment of the details shall be constrained by the number of permanently composed LEDETS.

b. The Visit and Search Team is comprised of a minimum of four CG personnel who go on board the target vessel and actually conduct the boarding. Additional personnel are assigned from the crew of the host CG cutter or Navy ship to provide increased security for the boarding team. The number of personnel required for added security will be dictated by the situation. If the host cutter/ship cannot provide security, three additional Coastguardsmen will be assigned to the boarding team.

c. The addition of a Maritime Interception Force (MIF) Command and Control staff of appropriate size, make-up, and experience, should be considered to support Coast Guard personnel in theater and organize MIF operations for the Theater Commander. The exact size and composition of this C2 force element is situational. The CG used a seven person C2 staff in the Persian Gulf to oversee 10 LEDETS, and uses 1 LCDR to support 1 LEDET for Adriatric operations.

6. Equipment Requirements. Deployment kit to be identified by Commandant (G-OLE).

Individual boarding party member equipment requirements:
AUTHORIZED

Ballistic nylon L/E belt, holster, key ring, flashlight, Handcuff and 1 magazine holder
PFD vest
Handcuffs
D-cell flashlight
Body armor
Flight Bag/fliers helmet bag
Ball Cap
Deck shoes
Expandable Baton and Pouch

Board Team Kit requirements:

Shipping Case (drop pump case)
Weapons carrying case (Large Pelican Case)
Boarding Bag
Flight Bag/Flight Helmet Bag,
Tool kit - Adjustable Wrenches, Tape Measure, Screwdrivers, flamer pliers, Wrench set, Bolt Cutters, Inspection Mirrors, Bore Scopes, sounding tapes, etc.
Drill/Charger and bits
NIK master Kit
Porta Pak, 2

Evidence Tape/Tags
Flex cuffs
Mini cassette recorder
Binoculars, 2
Compartmented Clipboards
Leg irons, 4
35MM Camera with 1.8 lens/pelican case
75/200 zoom lens
Polaroid camera/film
Super Eight video camera and film
Handheld radios and accessories
CG ensigns, 2 holiday/2 small
Small Arms
  7 Pistols
  2 Rifles
  2 Shotguns

NOTE: Boarding kit requirements are situational - standard L/E equipment not always necessary for Non-L/E operations (i.e. CG ensigns, 2 holiday/2 small). Supported command should have most of the necessary equipment.

7. Mobility and Deployment. This force element consists of personnel and equipment. It is not self-supporting. It is deployable to Navy and Coast Guard afloat units. The detail is not self-administering and when deployed should be transported by air, land or sea using organic (Coast Guard) or supported commander provided transportation.

AV. Force Element: Weapons Control Team. HQPC (G-ODO)

1. Applicable Reference Documents.

   a. COMDTINST M8000.2 (series), Ordnance Manual
   b. COMDTINST M8000.11 (series), Small Arms Manual

2. Functional Duties.

   a. Check operation and perform maintenance and repair of small arms, line-throwing guns, and pyrotechnic equipment. Maintenance and repair guidelines are contained in applicable COMDTINSTs and technical manuals.

   b. Instruct personnel in use, care and accountability of small arms, line-throwing guns, and pyrotechnic equipment.

   c. Ensure weapons and ammunition issued and used are in compliance with Commandant's Use of Force Policy, the Law of Armed Conflict, and the specific Rules of Engagement, if any.

3. Personnel. Two enlisted (GM rating).

   a. Team leader: Enlisted, E-6 or above.

   b. Team member: Enlisted, E-4 or above.

   c. Both team leader and member:

      (1) GM rating.

      (2) HH - Small Arms Instructor.

4. Planning Codes.

Force Element Short Title	UTC	ULC	DEPID	Persons
WEAPONS CNTL TM	GAL40	TM	P	2

5. Planning Factors for Force List Development.

   a. Elements will be stationed at only those shore stations (less training commands) which will have more than 200 small arms. Shore stations with less than 200 small arms will be serviced by the district armory. Guidelines are as follows:

      (1) One team: More than 200 to 300.

      (2) Two teams: More than 300 to 500.

      (3) Three teams: More than 500 to 700.

   b. Assign teams for any single unit (except training commands) with more than 200 weapons.

c. CCGFs shall include the weapons totals of all subordinate units when calculating the number of weapons control teams require.

d. District commanders shall calculate weapons team requirements based upon weapons totals of all subordinate units which do not have their own Weapons Control Team(s).

6. Equipment Requirements. To be provided by receiving unit:

*Weapons Cleaning/Maintenance Equipment
*Weapons Containers
*Storage Lockers
*Tables

*Depends on the number and types of weapons and personnel supported.

7. Mobility and Deployment. This force element consists of personnel only. It is not self-supporting. It can work at an existing unit, can be part of another larger deployable force element.

CHAPTER 5. EQUIPMENT REQUIREMENTS

A. Introduction. This chapter, along with supporting enclosures (3) and (4), describe, itemize and provide standard equipment planning factors based upon sub-unit force element descriptions in Chapter 4.

1. Enclosure (3) is a list of standardized equipment normally used by personnel in sub-unit force elements. This list was developed using input from the field, program managers, and experienced readiness planners. Corrections and suggestions for improvement are encouraged. Additional equipment requirements beyond the standard list, due to specific operational or environmental factors, can be developed locally. Such equipment packages shall be justified, fully identified (including all NSN/contract/stock number data and pricing) and documented in operation plans (OPLANs).

2. Standard port level force element equipment planning factors are included in enclosure (4). Deviations from these planning factors shall be documented and justified in the OPLAN and other supporting documents.

3. Summary equipment lists are required in all Coast Guard operation plans, using the blank worksheets at the end of enclosure (4). Detailed equipment lists are not required. However, since current policy precludes contingency stocking of materiel, planners should develop and maintain a list of local sources for equivalent items.

4. Equipment requirements must be generated to support the Programmed Force, i.e., the structured strength (PAL and CPAL combined), for each commander's area of responsibility. All commanders should place primary emphasis on determining equipment requirements based on the support of the structured strength. Equipment requirements to support the Planning Force beyond the Programmed Force will be identified by Headquarters using the field's sub-unit force element summary lists.

B. Concept of Standardized Equipment.

1. The standardization of equipment requirements is necessary because the Coast Guard does not have equipment prepositioned to meet national emergency situations. During emergency situations, units may be given considerable latitude for the procurement of equipment due to the diversity of mission performed from unit to unit. Additionally, some equipment in common use by many units is not available through the Federal Supply System and may not be regularly available through GSA contracts.

2. General information on equipment categories are described in section 5.D. of this chapter. Enclosure (3) itemizes equipment items described, and wherever possible a National Stock Number (NSN), GSA contract number, and/or commercial stock number has been supplied. (Note, however, that some items are identified as local or district purchase.) These details will be regularly monitored by the appropriate Headquarters Planning Coordinators (HQPCs are in enclosure (1)). HQPCs charged with maintaining information on stock numbers, nomenclature, supply sources, item availability, and unit cost are indicated in brackets in enclosure (3). Many of the sized items, especially clothing, have several stock numbers. Complete NSN lists may be found in the Federal Supply Catalog or the Navy's Afloat Shopping Guide.

3. Commercial products, brands, trade names, part numbers, etc., are listed in the equipment table and guidance. This IN NO WAY CONSTITUTES AN ENDORSEMENT BY THE COAST GUARD for a particular product or process. These products are generally used throughout the Coast Guard and are therefore recognized by personnel within the service. Commercial nomenclature is used for budgetary planning purposes only and equivalent commercial products may be used.

C. Equipment Planning and Reporting.

1. Commanders, Coast Guard Forces (CCGF).

a. Determine equipment requirements based on support of the structured strength of all CCGF units, the equipment currently on-hand and planned for purchase during the planning cycle, and determine equipment shortages or overages.

b. Include this data in the CCGF's operation plan and other support documentation for the MLCs Manpower, Mobilization and Support Plan (MMSP). Detailed equipment lists are not required. Use the worksheets at the end of enclosure (4). However, since current service policy precludes contingency stocking of materiel for national emergency, planners shall develop and maintain a list of local sources for equivalent items.

2. District Commanders.

a. Determine equipment requirements based on support of the structured strength of the district staff and district units (less CCGF units), the equipment currently on-hand and planned for purchase during the planning cycle, and determine equipment shortages or overages.

b. Analyze CCGF equipment data to ensure that the standard planning factors were used, and if they were not used, then ensure that justifiable documentation is included.

c. Include an overall district equipment data summary and a separate district staff/units data summary to the district's 9700/9800 series operation plan.

3. Area Commanders/Maintenance Logistics Commands.

   a. Determine equipment requirements based on support of the structured strength of the area staff and area units (less districts), the equipment currently on-hand and planned for purchase during the planning cycle, and determine equipment shortages or overages.

   b. Analyze district and CCGF equipment data to ensure that the standard planning factors were used, and if they were not used, then ensure that justifiable documentation is included. Include an overall area equipment data summary plus a separate area staff and area unit data summary in the area's 9700/9800 operation plan, and MMSP (as required).

4. Commandant.

   a. Headquarters Planning Coordinators (HQPCs) will determine the equipment and logistics needs for all force elements they manage. Where several force elements share equipment, the HQPC identified in enclosure (1) will have overall responsibility for equipment packages. Those responsibilities include annual verification of stock numbers, costs, supply sources, and nomenclature. Updated information will be provided to G-REP.

   b. Chief, Logistics Management Division (G-ELM).

      (1) G-ELM will update National Stock Numbers (NSNs) for specific equipment.

      (2) In coordination with all HQPCs, G-ELM will analyze area and district equipment data to ensure that standard planning factors were used, and if they were not used, then ensure that justification is included.

   c. Chief, Readiness Plans Division (G-REP).

      (1) G-REP will promulgate logistics and equipment planning guidance, using planning factors and other data developed by the HQPCs. This task includes refinement of OPLAN and MMSP formats to allow accurate extraction of logistics/equipment data by G-ELM and HQPCs.

      (2) G-REP will maintain the Coast Guard's equipment lists (enclosure (4)). In coordination with Headquarters program managers, determine equipment requirements, based on support of the structured strength of the Headquarters staff, the equipment currently on-hand, and planned purchases, and determine equipment shortages or overages. Include this data in the Coast Guard Headquarters MMSP.

D. Equipment Description Guidance. The following information briefly describes the equipment categories in enclosure (3).

1. Small Boats.

a. Boat and small boat requirements should, in most cases, be filled by using one of the standard Coast Guard boats listed below. If operating circumstances are unique, an a Coast Guard standard boat can not perform the mission, describe the operational requirements of the boat and its projected operating environment. Operational limits for shore based standard boats may be found in COMDTINST M16120.6 and the Operator Handbook for each boat. Each district is responsible for determining the performance limits of their non-standard boats which may be found in the District Standard Operating Procedures (SOP).

b. For planning purposes, boat requirements will be identified in one of the categories listed below

(1) SRB Type: Surf Boat, multi-mission, capable of operating in breaking surf conditions. Current SBs: Motor Life Boats (new 47', and current 44' and 52' MLB), and Surf Rescue Boat (30' SRB).

(2) UTB Type: Utility Boat (offshore), multi-mission, with communications, navigation, crew facilities and endurance for offshore operations, not surf-capable. Current UTBs: Utility Boats, Large (41' and 42'). Navy UTB Equivalent: 40' PPRB (Plane Personnel and Rescue Boat).

(3) PWB Type: Ports and Waterways Boat (or other inshore utility boat), multi-mission, operates in sheltered water and inshore areas, not surf-capable. Current PWBs: Ports and Waterways Boat (32' PWB). Similar Coast Guard boats: Motor Cargo Boat (25' MCB), and Motor Surfboat (25' MSB). Navy equivalent: 31' PBR Mk 2 (Patrol Boat, River).

(4) ANB Type: Large Aids to Navigation boat, lifting capable (does not include Trailerable Aids to Navigation Boat (TANB)).
Current ANBs: ANB 55, ANB 65
ANB(X): BU 45

(5) SK Type: Skiffs, smaller than 25 feet in length, Rigid Hull Inflatables (RHIBs), all other boats. Navy SK Equivalents: 18' Utility Boat, 18' Boom Tender Boat, 22' Navy Utility Boat.

(6) Other Boats: Other boats required to meet a specific need not covered in the above categories.

(7) Standard Boat Designations:

ANB	Aids to Navigation Boat (65' & 55')
ANB(X)	Aids to Navigation Boat (45')
ANLB	Aids to Navigation Logistics Boat
ASB	Arctic Survey Boat
ATB	Aviation Training Boat
BU	Buoy Boat
BUSL	Buoy Boat, Stern Loader
FR	Flood Relief Punt
LC	Landing Craft
MCB	Motor Cargo Boat
MLB	Motor Life Boat
MSB	Motor Surf Boat
PWB	Ports and Waterways Boat
RHIB	Rigid Hull Inflatable (22' to 28')
RHIM	Rigid Hull Inflatable (16' to 21' 11")
RHIL	Rigid Hull Inflatable (13' to 15' 11")
SB	Sail Boat
SKI	Skiff, Ice
SPC	Special Purpose Craft
SRB	Surf Rescue Boat
TANB	Trailerable Aids to Navigation Boat
UTB	Utility Boat, Large (41')
UTL	Utility Boat, Light (19' to 24' 11")
WP	Work Punt (less than 18' 11")

c. Boat Outfit and Nav Kit. A standard boat outfit for an SK type boat and navigation kit are itemized and considered to be part of the boat.

2. Small Arms (and Related Equipment).

a. Small arms include both the weapons and equipment that are related to the maintenance or use of ordnance. Although weapons are not always issued with holsters and magazine/ammunition pouches, those accessory items were included in the tables with the weapons in order to provide a simplified audit trail.

b. Coast Guard units do not normally use Army issued individual equipment (web gear in this case), but it was included in the standardized equipment because it is standard in DOD, and because a basic issue of web gear is modular and can support the same person in a variety of missions and situations. Personnel can add or delete components to suit the specific tasks they will be performing.

c. The pistol specified is the M9 9mm. Actual issue may not be that particular pistol, but it is specified since that is what current purchases are.

d. For planning purposes, standard commercial body armor (Threat Level II), as used by civilian law enforcement officers and by Coast Guard MLE personnel, will meet CONUS requirements.

3. Communications Equipment.

   a. Four types of radios are identified in Enclosure (3). Refer to COMDTINST M2000.3B, Chapter 4 for policy concerning Data Encryption Standard (DES) Systems.

   b. Other related equipment is identified in Enclosure (3).

4. ADP Equipment. Since the ADP requirements of each unit are unique, each planner will develop a unit-unique list. CCGFs will forward an itemized list, with pricing information, to the district commander. Districts will only forward a summary of the cost of standard terminal and other terminal shortfalls.

5. Foul Weather/Personal Gear. This category has four parts: Basic, Boat, Cold Weather, and Extreme Cold Weather. Personal gear is organizational clothing issued to individuals whose duties require them to be out in the weather. Many force elements receive the basic gear, with boat crews receiving additional items as outlined by COMDTINST M10470.10. Additionally, personnel assigned to areas that have cold weather will require the additional cold/extreme cold weather equipment. Dry Suits and Anti-Exposure Coveralls are addressed in paragraph 10 below.

6. Safety Equipment. The equipment listed is the basic gear issued to personnel that work in the industrial environment common to most ports.

7. Respiratory Protection Equipment. Non-NBC/CBR related respiratory protection equipment including full-face respirators, emergency escape breathing apparatus (EEBAs), and self contained breathing apparatus (SCBAs).

8. Fire Fighting Equipment. This category has two parts: Basic and Firefighter. A detailed, itemized equipment list (including sources, stock numbers, and prices) will be developed by units requiring Marine Fire Fighting Coordinators. Forward cost data to the supported commander and/or logistics activity.

9. Survival Equipment. Requirements for survival equipment are found in COMDTINSTM10470.10 (series). Survival systems requirements do not change for contingencies.

10. Exposure/Dry Suits. The anti-exposure coveralls and dry suits are generally local purchase items and their use is determined by local environmental conditions. Local plans will include complete purchasing data. The number of each category of suit required, on-hand, and shortages/overages, as well as cost of each category will be forwarded from MSOs/Groups/CCGFs to the district.

11. Electrical Equipment. Basic electrician's tools (2 sizes).

12. Electronic Equipment. Electronics test and engineering equipment.

13. Engineering Equipment. Basic equipment for both mechanical and structural work.

14. Vessel Inspection Equipment. This is a basic Marine Inspectors "bag".

15. Marine Investigation Kit. A basic outfit of equipment used by Marine Investigators.

16. Subsistence Equipment. Each dining facility is unique and the number of personnel authorized to subsist will vary widely from facility to facility. Therefore, a standard list of equipment cannot be developed. Where dining facilities will expand operations, the planner will have to develop a detailed equipment list (source, stock number, and price) of extra equipment needed, include that information in the OPLAN, and forward that data. Show only cost data in the equipment summary table.

17. Photographic Equipment. This is a standard list of equipment for Public Affairs Specialists.

18. Photo ID Kit. To be developed. This category will include equipment needed to make photographic identification cards, including security badges, Port Security cards, and military identification.

19. Investigations Equipment. Special equipment used by an Investigations Team.

20. EMT Kit. EMT Kits may or may not be needed, depending upon unit requirements. See COMDTINST M10470.10 (series), Rescue and Survival Systems Manual, for additional information.

21. Administrative Equipment. This category covers the basic office essentials (i.e., safe, filing cabinet, storage locker, bookcase, table, desk, chair, typewriter, calculator, copier and plotting equipment) needed by a number of force elements. Beyond some general guidance contained within certain force elements, use best judgement as to the quantities and types of equipment needed. Each commander shall determine a local concept of administrative and supervisory support. If administrative and command and control support personnel will work in shifts in existing facilities, then less administrative equipment will be required. This shall be identified in the plan. Although some force elements do not list administrative equipment in the planning factors, the planned employment of these force elements at the local level may require some of the equipment. Identify and justify any additional requirements.

22. Vehicles. Vehicle requirements have been standardized into three basic types: sedans, 3/4 ton pickups (with towing capability), and 9 passenger vans. Additional types of vehicles, such as 4-wheel drive, may be listed to meet specific needs. Standard vehicle safety equipment is required for each vehicle. Contact local vehicle coordinator and GSA contractor to determine if adequate support is available. Develop agreements as required.

23. NBC/CBR Equipment, Individual. This equipment category is primarily intended for units that may deploy OCONUS. CBR (chemical, biological, and radiological) Operations is the term used within DOD to identify tactical equipment and procedures used in-theater. NBC (nuclear, biological, and chemical) Defense is for equipment and procedures used for non-offensive operations. COMDTINST M8071.1 (series), Coast Guard Radiac Program Management, contains policy and procedures for management of Navy-owned radiac equipment.

24. Marine Environmental Protection Equipment. This category includes kits of protective equipment (splash gear), pollution sampling and monitoring gear, and "first aid response" equipment for oil spill cleanup. Develop complete items list and cost data for first aid response equipment. Include only cost data in the equipment summary table.

STANDARD FORCE ELEMENT SUMMARY LIST

This list contains all Coast Guard standard force elements, including many not listed in this manual. The table includes Unit Type Code (UTC), personnel, Headquarters Planning Coordinator (HQPC), and page number (if applicable). Commandant (G-REP) is the overall coordinator for all force elements. Refer to each force element description for detailed information. The first character of the UTC conforms to Chief of Naval Operations standards, as discussed in paragraph 1 to Enclosure (2).

FORCE ELEMENT	UTC	PERS	HQPC	PAGE
Afloat Related Force Elements				
WHEC-High Endurance Cutters				
378 FT WHEC	5WHEA	167	G-OCU	
WHEC (378) Augmentation Detail	5ZF20	38	G-OCU	2-3
Maintenance Augmentation Team (afloat) 378 MAT...	HMAT1	11	G-ENE	2-6
WMEC-Medium Endurance Cutters				
270 FT WMEC	5WMEB	100	G-OCU	
WMEC (270) Augmentation Detail	5ZF30	20	G-OCU	2-7
Maintenance Augmentation Team (afloat) 270 MAT...	HMAT2	12	G-ENE	2-9
210 FT WMEC	5WMEA	75	G-OCU	
WMEC (210) Augmentation Detail	5ZF40	11	G-OCU	2-10
Maintenance Augmentation Team (afloat) 210 MAT...	HMAT3	7	G-ENE	2-12
230 FT WMEC	MWMEB	78	G-OCU	
213 FT WMEC	MWMEC	79	G-OCU	
205 FT WMEC	MWMED	77	G-OCU	
WMEC (230/213/205) Augmentation Detail	MZF40	11	G-OCU	2-13
180 FT WMEC	MWMEE	51	G-OCU	
WMEC (180) Augmentation Detail	MZF60	10	G-OCU	2-14
WPB-Patrol Boats				
WSES 110 FT-Surface Effect Ship	5WPBH	10	G-OCU	
WSES Augmentation Detail	5VF80	4	G-OCU	2-15
110 FT WPB	5WPBC	16	G-OCU	
WPB (110) Augmentation Detail	5VF90	4	G-OCU	2-16
82 FT WPB	5WPBB	10	G-OCU	
WPB (82) Augmentation Detail	5VF70	3	G-OCU	2-17
110 FT Patrol Boat Squadron	5WPBF	93	G-OCU	2-18
110 FT Patrol Boat Squadron Staff	5WPBJ	5	G-OCU	2-18
WAGB-Icebreakers				
399 FT WAGB (Polar)	MAF10	138	G-NIO	
290 FT WAGB (Great Lakes)	MWBBD	74	G-NIO	
Buoy Tenders				
180 FT WLB-Buoy Tenders, Seagoing	MWLBA	50	G-NSR	
WLM Buoy Tenders, Coastal				
157 FT WLM	MWLMB	31	G-NSR	
133 FT WLM	MWLMC	23	G-NSR	
WLI Buoy Tenders, Inland				
100 FT WLI	MLC90	14	G-NSR	

Afloat Related Force Elements (cont'd)

FORCE ELEMENT	UTC	PERS	HQPC	PAGE
65 FT WLI	MLC30	8	G-NSR	
WLIC Construction Tenders, Inland				
160 FT WLIC	MLD40	14	G-NSR	
100 FT WLIC	MLC40	18	G-NSR	
75 FT WLIC	MLD30	14	G-NSR	
WLR Buoy Tenders, River				
115 FT WLR	MLD80	22	G-NSR	
75 FT WLR	MLD50	19	G-NSR	
65 FT WLR	MLC50	17	G-NSR	
Tugs				
140 FT WTGB Icebreaking Tug	MWTGB	17	G-NIO	
65 FT WYTL Harbor Tug, Small	MWYTB	6	G-NIO	
Training Ship				
295 FT WIX	ZED90	34	G-PRF	

Aviation Related Force Elements

Air Station (AIRSTA) (large)	X8E50	186	G-OAV	
Air Station (AIRSTA) (small)	X8E51	60	G-OAV	
Aircraft Repair and Supply Center (AR&SC)	WARSC	135	G-EAE	
Aviation Training Center (ATC)	TATRA	413	G-OAV	
Aviation Technical Training Center (ATTC)	TAVTT	103	G-PRF	
Aviation Engineering Support Team	WCG01	5	G-OAV	3-3
Aviation Eng. Support Tm (Enhanced)	WCG02	9	G-OAV	3-3
HH-3F Medium Range Helicopter	3EJ30	0	G-OAV	3-5
HH-3F Flight Crew	3CG03	5	G-OAV	3-5
HH-60J Medium Range Helicopter	3EJ35	0	G-OAV	3-5
HH-60J Flight Crew	3CG06	4	G-OAV	3-5
HH-65A Short Range Helicopter	3EARX	0	G-OAV	3-10
HH-65A Flight Crew	3CG02	3	G-OAV	3-10
HU-25A/B Medium Range Fixed Wing Aircraft	3EJ20	0	G-OAV	3-15
HU-25B Medium Range Fixed Wing A/C with AIREYE	3EJ21	0	G-OAV	3-15
HU-25C Medium Range Fixed Wing Aircraft	3EJ22	0	G-OAV	3-15
HU-25 Flight Crew	3CG04	5	G-OAV	3-15
HC-130 Long Range Fixed Wing Aircraft	3EJ10	0	G-OAV	3-19
HC-130 Flight Crew	3CG05	7	G-OAV	3-19
RG-8A Reconnaissance Glider	3EJ8A	0	G-OAV	3-22
RG-8A Flight Crew	3CG07	2	G-OAV	3-22
VC-4A Medium Range Staff/Cargo/Trans	3EJ70	0	G-OAV	3-26
VC-4A/11A Flight Crew	3CG08	4	G-OAV	3-26
VC-11A Medium Range Staff/Cargo/Trans	3EJ80	0	G-OAV	3-29

Shore Facilities

Academy	TACAD	519	G-PRF	
Activities Europe (ACTEUR)	C7H10	33	G-NRN	
Aids to Navigation Team (ANT)	Z1E30	8	G-NSR	
Area Office			G-CPA	
COMLANTAREA COGARD	C7H20	190		
COMPACAREA COGARD	C7H25	141		

Shore Facilities (cont'd)

FORCE ELEMENT	UTC	PERS	HQPC
Base	X8H40	67	G-NSR
Civil Engineering Unit (CEU)	4CEU2	43	G-ECV
COMDAC Support Facility	ECSF0	27	G-TC
Commander, Coast Guard Forces (CCGF)	C7H60	0	G-REP
Communication Station (COMMSTA)	6CGRD	76	G-TC
District Office			G-CPA
CCGDONE	C7H30	213	
CCGDTWO	C7H31	142	
CCGDFIVE	C7H33	202	
CCGDSEVEN	C7H34	290	
CCGDEIGHT	C7H35	192	
CCGDNINE	C7H36	161	
CCGDELEVEN	C7H40	200	
CCGDTHIRTEEN	C7H42	166	
CCGDFOURTEEN	C7H43	128	
CCGDSEVENTEEN	C7H44	164	
Electronic Engineering Center (EECEN)	EENGC	114	G-TC
Electronic Maintenance Detachment (EMD)	EEMD0	TBD	G-TC
Electronic Shop (ESHOP)	EBP60	8	G-TC
Facilities Design and Const Center (FDCC)	4FDCC	87/61	G-ECV
Group	C7H70	38	G-NRS
Headquarters/COMDT	CCGRD	1469	G-CPA
Information Systems Center.(COGARD ISC)	EISC2	150	G-TC
Institute (COGARD INSTITUTE)	TNSTT	29	G-PRF
Intelligence Coordination Center (ICC)	PCGRD	29	G-OIN
International Ice Patrol (IIP)	Z1CEP	15	G-NIO
LORAN-C Station (LORSTAO) (OCONUS)	X8E79	20	G-NRN
LORAN-C Station (LORSTAI) (in CONUS)	X8E80	5	G-NRN
LORAN Control Station (LORCON)	X8E81	20	G-NRN
Maintenance Logistic Command (MLC)	CMLC0	227	G-CPA
Marine Inspection Office (MIO)	X8H60	57	G-MP
Marine Inspection Detachment (MIDET)	X8H61	9	G-MP
Marine Safety Office (MSO)	X8H70	30	G-MP
Marine Safety Detachment (MSD)	X8H71	4	G-MP
National Data Buoy Center	KNDBC	15	G-NSR
National Motor Lifeboat School	TNMLS	38	G-NRS
Naval Engineering Support Unit (NESU)	HNESU	30	G-ENE
Omega Station (OMSTA)	X8E70	12	G-NRN
Omega Navigational System Center.(ONSCEN)	ZONSD	51	G-NRN
Operations Systems Center	ZOCC2	52	G-TC
Pay and Personnel Center (PPC)	LCGRD	100	G-PIM
Personnel Reporting Unit (PERSRU)	LPSUP	23	G-PIM
Project Resident Office (PRO)	Z1T70	38	G-Ad
Recruiting Office (RUITOFF)	Z1P50	4	G-PRJ
Regional Recruiting Command	Z1P40	7	G-PRJ
Research and Development Center (R&D CEN)	ZRNDC	52	G-ER
Reserve Center (RESCEN)	ZRSCN	4	G-RSP
Reserve Training Center (RTC)	TRTRC	468	G-RSP/G-PRF
Section (COGARD SECTION)	C7H80	26	G-NRS
Station (STA)	X8F90	24	G-NRS

Shore Facilities (cont'd)

FORCE ELEMENT	UTC	PERS	HQPC	
Strike Team (National)	8STRK	28	G-MEP	
Supply Center (SUPCEN)	JCGRD	114	G-ELM	
Support Center (SUPRTCEN)	YSPRT	195	G-ECV	
Training Center (TRACEN)	TTRCN	240	G-PRF	
Training Quota Center (TQC)	TTQC2	13	G-PRF	
Training Team - District	TDTT2	12	G-OCU	
Vessel Traffic Service (VTS)	XVTS2	45	G-NVT	
Yard	HCGRD	237	G-ENE	

Sub-Unit Force Elements

Administrative Support - Personnel	LAN20	1	G-PIM	4-3
Alien Migrant Interdiction Ops Augmentation Teams:			G-OLE	4-5
COGARD AMIO H/MEC OTC AND STAFF	YAHEC	12		
COGARD AMIO MEC AUG DETAIL	YAMEC	5		
COGARD AMIO FORWARD SUPPORT COMMAND	JAFBD	11		
COGARD AMIO AIR DETAIL	JAAVD	3		
COGARD AMIO FIELD BASE AUGMNT	LABAD	6		
COGARD AMIO NAVY AT	YANAT	2		
Boat Crew, 4 man	QAG21	4	G-MPS	4-8
Boat Crew, 3 man	QAG22	3	G-MPS	4-8
Boat			G-NRS	4-8
Surf Boat	MBT01	0		
Utility Boat (Nearshore)	MBT02	0		
Ports & Waterways Boat	MBT03	0		
Aids to Navigation Boat	MBT04	0		
Skiff	MBT05	0		
Other Boat	MBT06	0		
Command and Control Team - Enlisted	CSM40	2	G-REP	4-19
Command and Control Team - Officer	CSM10	2	G-REP	4-20
Command and Control Team - Officer/Enlisted	CSM60	2	G-REP	4-21
Command and Control Support - Enlisted	CSM50	1	G-REP	4-22
Command and Control Support - Officer	CSM20	1	G-REP	4-24
Commercial Vessel Safety Support	HAK10	1	G-MP	4-26
Communications Support	6AP21	1	G-TC	4-27
Crisis Action Team	CSM30	3	G-RER	4-29
Data Processing Support Team	6AN10	4	G-TC	4-32
Dental Support Team	FAW30	3	G-KRM	4-34
Electronics Support Team	EAP30	3	G-TC	4-35
Engineering Support Team	4AP40	5	G-ENE	4-37
Environmental Health Support Team	FAQ10	2	G-KSE	4-39
Explosives Handling Team	GAL30	8	G-MPS	4-40
Facilities Inspection/Survey Team	QSK50	3	G-MPS	4-43
General Support Team	ZAN30	3	G-REP	4-48
Intelligence Team - Headquarters	PAL60	5	G-OIN	4-49
Intelligence Team - Area	PAL61	12	G-OIN	4-49
Intelligence Team - Port	PAL62	5	G-OIN	4-49
Investigations Team	PAL70	8	G-OIS	4-51
Legal Support Team	LAN70	4	C-LMI	4-53
Liaison Officer - Other Service/Agency	LSM40	1	G-REP	4-55

Sub-Unit Force Elements (con't)

FORCE ELEMENT	UTC	PERS	HQPC	PAGE
Logistics Support (LOGIST SUP)	L8N70	1	G-ELM	4-57
Marine Environmental Response Team	NDN70	2	G-MP	4-59
Marine Firefighting Coordinator	QAK20	1	G-MPS	4-62
Marine Inspector	HAK30	1	G-MP	4-64
Marine Investigator	HAL30	1	G-MP	4-66
Medical Support Team	FAQ20	3	G-KRM	4-69
Merchant Personnel Licensing Team	LAL90	3	G-MP	4-71
Mobile Operations Center Detail	9SR40	9	G-NRS	4-73
Mobile Support Unit (MSU)	9MSU2	8	G-OCU	4-75
Operations Center Watch Team	XAR10	2	G-NRS	4-77
Operations Center Support	XAN61	1	G-NRS	4-78
Physical Security Team	QSL51	2	G-MPS	4-79
Port Operations Support Team	XPOPS	1	G-MPS	4-84
Port Safety/Security Boarding Team	QSK32	2	G-MPS	4-86
Public Affairs Officer	68M50	1	G-CP	4-89
Public Affairs Support	LAN40	1	G-CP	4-90
Recruiting Support	LAW50	1	G-PRJ	4-92
RRF Activation Team, 4 man	HAK40	4	G-MP	4-93
RRF Activation Team, 3 man	HAK41	3	G-MP	4-93
Security Police Team	QSL60	4	G-OIS	4-95
Subsistence Specialist	LAQ41	1	G-PS	4-97
Transportable Communications Center	6TCC1	6	G-TC	4-101
Visit and Search Team	9VSDT	7	G-OLE	4-103
Weapons Control Team	GAL40	2	G-ODO	4-107

Reserve Specific Force Element

FORCE ELEMENT	UTC	PERS	HQPC
Port Security Unit	QSM50	117	G-ODO

TUCHA DATA ELEMENT DESCRIPTIONS

Unit Characteristics (all Force Elements)

1. UTC (A-1). A five character alpha-numeric standard unit type code (UTC) uniquely identifies a standard force element, as described in this manual. Non-standard UTCs end with "99BB". The first character of all UTCs shall conform to a functional code as prescribed by CNO (OP-605). As applicable, Coast Guard force elements use the following first character UTC functional codes. The second through fifth characters of the UTC are approved by the Joint Chiefs of Staff.

A - Task Organization
B - Not used
C - Service Headquarters, Major Staffs and Commands
D - Defense/Civil Government Agencies
E - Electronics
F - Medical - Dental
G - Ordnance Systems Activities
H - Ship Construction and Maintenance
J - Supply
K - Oceanography, Hydroraphics, Geodesy
L - Administration and Personnel
M - Fleet Auxiliaries and their Admin Commands
N - Aviation Support
P - Intelligence
Q - Security
R - Reserve Forces
S - Comptroller
T - Training
U - Transportation
V - Not used
W - Aircraft Development and Maintenance
X - Operating Bases and Stations
Y - Naval Support Element
Z - Miscellaneous
0 - Not used
1 - Not used
2 - Not used
3 - Aircraft and Squadron
4 - Facilities Engineering
5 - Warships and their Administrative Commands (including Squadrons)
6 - Communications
7 - Weather
8 - Navy Mobile Land Units
9 - Misc. Combat/Combat Support/Combat Service Support

2. TYPNM (A-2). A 55 character maximum long type name (TYPNM) that describes the UTC. Letters, digits, blanks, comma (,), asterisk (*), virgule (/), ampersand (&), minus (-), plus (+), period (.), and parentheses (()) are the only special characters permitted. For CG purposes the first 31 characters should completely identify the TYPNM to conform with TPFDD data field element limitation. The additional characters can be used but will not show up on a TPFDD print out. The first six characters for actual CG units with UICs should be "COGARD" or some other commonly used term.

3. ULC (B-2). A three character alpha-numeric unit level code (ULC) that allows the force element to be categorized according to a stratum, echelon, or point at which control or authority is concentrated. ULCs are identified in Annex B, Table 7 of JCS Pub 1-03.16 (formerly JCS Pub 6, Vol. 11, Part 11).

4. SERV (B-3). A one character service code for the U.S. Coast Guard is: "P"

5. DEPID (B-4). A one character, alpha-numeric deployment indicator code (DEPID) that categorizes the deployability of the force element. DEPIDs are described below:

   a. DEPID "1" (Standard). Indicates a coexisting deployable self-defining force element. Refer to DEPID "5" for cutters.

   b. DEPID "2" (Fixed Provisional). Indicates a self-defining force element that is formed from existing resources and is designed to meet requirements of operation plans. When formed, the force element becomes a deployable, self-administering organization that can be employed as an individual unit.

   c. DEPID "3" (Augmentation). This self-defining force element is designed to augment the capability of an in place organization to meet a specific operation plan requirement. When formed, this force element is deployable but not self administering. Refer to DEPIDs "E" and "P" for detailed augmentation DEPID break down.

   d. DEPID "4" (Programmed). Indicates a self-defining force element programmed to be activated at some time in the future. The date of activation is not related to the implementation of operation plans but usually depends upon budget or other considerations.

   e. DEPID "5" (Standard/Variable). Indicates a self-defining force element with standard composition. These types of force elements can provide deployable fragments/detachments that are self-defined. All cutters fit this category.

   f. DEPID "6" (Variable). Indicates a non- self-defining force element that is deployable without a fixed composition.

   g. DEPID "7" (Group/Category). Indicates a force element that represents a generalized group or category of more specific force elements. The deployability of the group is dependent on the deployability of its members. This group force element should be self-defining if its included members are self-defining.

   h. DEPID "8" (Task Organization). Indicates a deployable non-self-defining force element identified as a task organization. The composition will vary, depending upon the specific assigned task or mission. Service/ joint documents may provide broad doctrinal guidance.

   i. DEPID "9" (Permanent Base). Indicates a non-deployable permanent base installation, facility, or organization. This type of force element would normally be deactivated rather than transferred or deployed.

   j. DEPID "E" (Augmentation-Equipment Only). Indicates a deployable self-defined equipment package that can be constituted from existing logistics resources to augment the capability of an in place operation plan requirement.

   k. DEPID "P" (Augmentation-Personnel Only). Indicates a self-defining force element that represents an identified current ability to augment an existing unit. When constituted, force elements with this indicator are deployable but not normally self-administering.

6. STYNM (B-4). A 15 character, alpha-numeric short type name (STYNM) which provides an abbreviation of the TYPNM. Rules specified in TYPNM apply. The last six characters of the STYNM may optionally contain the truncated Major Equipment Code (MEQPT) associated with the force element.

7. PERS (B-5). A five character number of authorized personnel prior to augmentation.

8. REFDC (B-7). A 19 character alpha-numeric reference document (REFDC) is the identifier of the document(s) that either authorizes the force element or contains its characteristics. If the organization is not described or authorized in any document, "not applicable" will be entered. For Coast Guard purposes the primary REFDC is this manual.

DETAILED EQUIPMENT LIST

The following detailed list of equipment is divided into categories, and when applicable, sub-categories and individual components. Inclusion of commercial stock/model numbers and nomenclature does not constitute Coast Guard endorsement of particular products. Stocknumbers, where given, are current as of 30 November 1992.

1. Small Boats:

SB - Surf Boat, 47' [G-NRS].....
UTO - Utility Boat, Offshore [G-NRSI.....
PWB - Ports and Waterways Boat [G-MPS].....
AB - Large Aids to Navigation Boat [G-NSR]....
SK - Skiff [G-NRS].....
OTH - Other boats.....

Boat outfit, containing [G-NRS]:

Binoculars, Weatherproof.....
Fenders, 4 ea.....2040-00-815-4792
Flusher, Outboard Engine.....
Extinguisher, Fire, Dry Chemical 50 lb.....4210-00-752-9343
Boat Hook, Telescopic.....
Guage, Tire Pressure.....4910-00-268-9772
Kit, First Aid.....6545-00-526-1903
Line, Towing, Fibrous (150').....4020-00-946-0436
Rope, Fibrous (2 ea.) (50').....4020-00-068-7906
Book (Boat Mission record/log).....7530-00-286-8363
Anchor, Danforth, 27 LB.....2040-00-377-8597
Plugs, Boat.....
Grapnel.....2040-00-238-9060
Horn, Freon.....
Ring Buoy, Lifesaving.....4020-00-275-3155
Light, Marker Distress.....6230-00-782-0643
Line, Float.....4020-00-530-0698
Line, Polypro., Heave (100' x 3/8").....
Bulbs, Light, Spare.....
Spare Light Bulbs (mailer and Boat).....

Tool Kit containing:

Bag, Tool..... ...5140-00-329-4306
Crimpers Tool, Terminal..... ...5120-00-278-2423
Wrench, Pliers..... ...5120-00-965-0604
Wrench, Pipe, 6"..... ...5120-00-277-1483
Wrench, Adjustable, 8"..... ...5120-00-240-5328
Screwdriver, Crosstip, set..... ...5120-00-357-7175
Screwdriver, Flat, set..... ...5120-00-103-9743
Plier, Diagonal Cutting..... ...5120-00-239-8253
Tape, Teflon..... 8030-00-889-3535
Tape, Electrical..... ....(local purchase)
Wrench Set, Combination (1/4 - 5/8)..... ...5120-00-148-7917
Wrench Set, Socket..... ...5120-00-322-6231

1.(cont)Nav Kit, containing [G-NRS]:
- Brief Case, Navigational.....8460-00-807-6153
- Local Area Charts (planner determined).....(from DMA)
- Compass.....6675-00-641-3207
- Dividers.....6675-00-641-3512
- Plotter, Weems, Rolling.....
- Pencils, dozen (3 ea.).....7510-00-286-5755
- Eraser.....7510-00-323-8788
- Slide Rule, Nautical.....6605-00-391-1110

2. Ordnance Equipment:

Pistol, includes [G-ODO]:
- Pistol, 9mm, Mg (w/Magazine).....1005-01-118-2640
- Holster, M12.....1095-01-194-3343
- Bianchi thumb release adapter.....
- Magazine, Cartridge (2 ea.).....1005-01-359-8310
- Pocket, Ammo, 2 Mag, 9mm.....8465-LL-LSD-1211
- Cleaning/Maintenance Equipment (per 50 weapons)
  - Rod, Cleaning.....1005-00-556-4102
  - Brush, Cleaning (20 ea.).....1005-00-550-4036
  - Patches (6 x 1000).....(local purchase)
  - CLP (Break-Free).....9150-01-054-6453
  - Carbon Removing Compound.....6850-00-965-2332
  - Cleaning Compound, Solvent.....6850-01-194-5225
  - Swab, Small Arms Cleaning.....1005-00-288-3565
  - Rag, Wiping.....7920-00-205-1711
  - Brush, Model B-14.....1005-00-494-6602

Sub-Machinegun, UZI, 9mm, includes [G-OIS]:
- Sub-Machinegun, UZI, 9mm.....1005-01-013-6050
- Magazine, Cartridge (5 ea.).....1005-01-204-4376
- Cleaning/Maintenance Equipment:
  (no additional equipment, use equipment provided with pistol)

Rifle, includes [G-ODO]:
- Rifle, 5.56mm, M16 (w/Bayonet and Magazine)....1005-00-073-9421
- Sling, Small Arms.....1005-00-654-4058
- Magazine, spare (3 ea.).....1005-00-056-2237
- Case, Small Arms Ammunitions.....8465-00-001-6482
- Cleaning/Maintenance Equipment (per 50 weapons)
  - Rod, Cleaning.....1005-00-089-3994
  - Brush, Cleaning (2 ea.).....1005-00-903-1296
  - Brush, Cleaning (2 ea.).....1005-00-070-7813
  - Brush, Model B-14 (7 ea.).....1005-00-494-6602
  - Patches (12 x 1000).....(local purchase)
  - Clip (Break-Free).....9150-01-054-6453
  - Case, Maint. Equip.....1005-00-781-9564
  - Carbon Removing Compound.....6850-00-965-2332
  - Cleaning Compound, Solvent.....6850-01-194-5225
  - Swab, Small Arms Cleaning.....1005-00-288-3565
  - Rag, Wiping.....7920-00-205-1711
  - Cleaner, Tobacco, Pipe.....9920-00-292-9946
  - Cloth, Abrasive.....5350-00-221-0872

2.(cont)Shotgun, includes [G-ODO]:

Shotgun, 12 GA, Riot	1005-00-999-4213
Sling, Small Arms	1005-00-654-4058
Case, Ammo, Shotgun	8465-00-261-6944
Cleaning/Maintenance Equipment (per 50 weapons)	
Rod, Cleaning	1005-00-630-1446
Brush, Cleaning	1005-00-349-7645
Swab, Cleaning	1005-00-716-0631
Tip, Cleaning	1005-00-716-0632
Clip (Break-Free)	9150-01-054-6453
Brush, Cleaning, Tool and Parts	7920-00-205-2401
Carbon Removing Compound	6850-00-965-2332
Cleaning Compound, Solvent	6850-01-194-5225
Swab, Small Arms Cleaning	1005-00-288-3565
Rag, Wiping	7920-00-205-1711
Brush, Model B-14	1005-00-494-6602

Machinegun, M60, includes [G-ODO]:

Machinegun, M60	1005-00-909-3002
Sling, Small Arms	1005-00-714-9749
Cleaning/Maintenance Equipment (per 50 weapons)	
Wrench, Screwdriver (2 ea.)	1005-00-690-3766
Extractor, Ruptured Case(2 ea.)	4933-00-652-9950
Barrel, Spare	1005-00-608-5001
Rod, Cleaning	1005-00-726-6109
Holder, Swab (2 ea.)	1005-00-726-6110
Brush, Cleaning	1005-00-556-4174
Brush, Cleaning	1005-00-650-4508
Brush, Cleaning	1005-00-690-3115
Case, Carrying	1005-00-791-5420
Handle Assembly	1005-00-793-6761
Magazine Assembly	1005-00-999-7783
Wrench Driver, Reamer Combo	1005-00-690-3766
CLP (Break-Free)	9150-01-054-6453
Brush, Artist	8020-00-233-0153
Brush, Cleaning, Tool and Parts	7920-00-205-2401
Cleaning Compound, Solvent	6850-01-194-5225
Carbon Removing Compound	6850-00-965-2332
Cloth, Abrasive	5350-00-221-0872
Swab, Small Arms Cleaning	1005-00-288-3565
Rag, Wiping	7920-00-205-1711
Brush, Model B-14	1005-00-494-6602

2.(cont)Body Armor [G-OLE]:
Class II (w/extra cover).....Point Blank
Helmet, PASGT.....8470-01-092-7525

Web Gear (Individual), includes [G-MPS]:
Belt, Individual.....8465-00-001-6488
Canteen, 1 Quart (2 ea).....8465-01-115-0026
Cover, Canteen (2 ea.).....8465-00-860-0256
Cup, Canteen.....8465-00-165-6838
Handcuff.....8465-00-242-7860
Suspenders, Individual Equipment.....
Case, Field, 1st Aid.....8465-00-935-6814
Pack, "Fanny".....
Pouch.....
Flashlight, Right Angle Head.....6230-00-264-8261

Weapons Container, GSA Approved [G-ODO].....GSA Contract

3. Communications Equipment [G-TTM/G-TES]:

Radios:
Radio, VHF-FM, Hand Held, DES.....
Radio, VHF-FM, Hand Held, Intrinsically Safe,.DES
Radio, VHF-FM, Bracket Mount, including:
King 7000.....
Antenna, VHF, Vehicular/Boat.....
Radio, VHF-FM, Bracket Mount, DES.....

Other:
Digital Display Pager.....(local purchase)
Distress Signal Device.....(local purchase)
Cellular Telephone:
Vehicle mounted.....(local purchase)
Portable.....(local purchase)

4. ADP Equipment [G-TIS]:
Standard Terminal.....
Computer, Laptop.....
Other Terminal.....

5. Foul- Weather/Personal Gear:

Basic Outfit, includes [G-PXM]:
Parka, Wet Weather.....8405-00-924-7936
Hat, So'wester.....8405-00-823-6982
Coat, Cold Weather (Field Jacket).....8415-00-782-2939
Liner, Cold Weather Coat.....8415-00-782-2888
Boots, Rubber, Insulated.....8430-01-049-0885

5.(cont)Outfit, includes [G-NRS]:

Shoe, Leather, Non Skid.....
Gloves, Leather.....8415-00-268-7869
Goggles, Sun, Wind.....8465-01-004-2893
Helmet (Motorsports Type).....(local purchase)
Light, Personnel Marker.....6260-01-086-8077
PFD, Type 3 (Stearns Type).....(local purchase)
Knife, Pocket.....5110-00-530-1757

Cold Weather Outfit, includes [G-PXM]:

Socks, Wool, Men's (2 pr).....8440-00-153-6719
Drawers, Flyer's (2 ea).....8415-00-467-4076
Undershirt, Flyer's (2 ea.).....8415-00-485-6548
Glove Inserts.....8415-00-682-6674

Extreme Cold Weather Outfit, includes [G-PXM]:

Parka, Extreme Cold Weather.....8415-00-376-1672
Trousers, Outer, Extreme Cold Weather.....8415-00-575-1230
Mask, Face, Extreme Cold Weather.....8415-00-243-9844
Mittens, Extreme Cold Weather.....8415-00-965-1753
Boots, Extreme Cold Weather.....8430-00-269-0099
Drawers, Shirt, Extreme Cold Weather.....8415-00-782-3227
Undershirt, Extreme Cold Weather.....8415-00-270-2013

6. Safety Equipment, includes [G-MPS]:

Helmet, Safety.....8415-00-935-3139
Shoes, Steel Toe.....8430-00-624-3135
Slide Fastener Unit.....8430-00-020-8447
Flashlight, Explosion Proof.....6230-00-269-3034
Gloves, Work.....8415-00-634-5027
Gloves, Safety.....8415-00-634-5026
Goggles, Industrial.....4240-00-052-3776
Glasses, Safety.....4240-00-516-4527
Plugs, Ear (pkg/10).....6515-00-139-0483
Coveralls, Disposable (3 pr).....8415-00-601-0792
Coveralls, Men (3 pr),.....8415-01-057-3488

7. Respiratory Protection Equipment [G-MPS]:

Emergency Escape Breathing Apparatus (EEBA)....
Self Contained Breathing Apparatus (SCBA).....4020-00-919-2864
Bottle, Spare, SCBA, CYL.....1045-01-111-8264

8. Fire Fighting Equipment [G-MPS]:

Basic, includes:

Helmet, Firefighting.....
Boots, Fireman.....8430-01-021-4071
Coveralls, Nomex, Firefighting. 8415-00-491-5361
Coat, Fireman.....8415-01-125-5337

8.(cont)Firefighter, includes:
Harness.....
Lifeline.....
Ax, Pick Head.....4210-00-142-4949

9. Survival Equipment.

Boat, includes [G-NRS]:
Signal Kit, Boat Crew.....8465-00-008-0592
Signal, Distress, MK 13/MK 124.....1370-00-115-3432
Kit, Signal, MK 79.....1370-00-866-9788
Whistle, Ball..... 8465-00-254-8803
Knife, Hunting.....7340-00-098-4327
Mirror, Emergency Signaling.....6350-00-105-1252
Light, Distress Signal.....6230-00-067-5209
Light, Personal Marker.....6260-01-086-8077

Aviation, includes [G-OAV]:
Vest, Survival, Aviation.....8415-00-139-6174
Bag, Kit, Flyer's.....8460-00-606-8366
Signal, Distress, MK 13.....1370-00-115-3432
Kit, Signal, MK 79.....1370-00-866-9788
Whistle, Ball.....8465-00-254-8803
Knife, Hunting.....7340-00-098-4327
Mirror, Emergency Signaling.....6350-00-105-1252
Light, Distress Signal.....6230-00-067-5209
Light, Personal Marker.....6260-01-086-8077
Marker, Dye.....
Beacon, Radio, EPIRB.....

10. Exposure/Dry Suits [G-NRS]:
Coveralls, Anti-Exposure.....(local purchase)
Wet Suit.....(local purchase)

11. Professional Equipment:

Electrical Equipment, includes [G-ENE]:
Tool Kit, Electrician's (24 pc).....5180-00-650-7821
Tool Kit, Electrician's (90 PC).....5180-00-313-3045

Electronic Equipment, includes [G-TES]:
Tool Sets (3 ea.).....5180-01-067-7138
Multimeter (3 ea.).....Simpson CV-260-7PM
Comms Analyzer.....CDPI-FM/AM-1500A
Oscilloscope.....CBTV-466
Telephone, Hand.....5965-00-170-9931
Calculator, Scientific.....(local purchase)

Engineering Equipment, includes [G-ENE];
Tool Kit, General Mechanic's.....5180-00-629-9783
Tool Kit, Carpenter's (85 pc).....5180-00-293-2873
Tape, Measuring.....5210-00-182-4797
Saw, Hand, Crosscut.....5110-00-596-0921
Saw, Circular, (7 1/4"), Portable.....5130-00-293-1162

11.(cont)Drill Set, Twist.....5133-00-293-0982
Drill, Electric, Portable (3/8").....5130-00-935-7354
Hammer, Hand.....5120-00-900-6110
Soldering Gun, Dual Heat.....3439-00-542-0396
Soldering Torch Kit.....3439-00-542-0531

Vessel Inspection Kit, containing [G-MP]:
Briefcase, Leather.....8460-00-782-6729
Hammer, Hand.....5120-01-036-6319
Mirror, Inspection.....5120-00-448-2455
Press, Lead Seal, Hand.....5120-00-224-7592
Micrometer.....5120-00-223-9158
Stamp, PFD Inspection.....(local purchase)

Marine Investigation Kit, containing [G-MP]:
Briefcase, Leather.....8460-00-782-6729
Recorder, Voice, Cassette, Compact.....(local purchase)
Camera, 35mm.....(local purchase)

Subsistence Equipment. Develop locally and identify funding needs.

Photographic Equipment, includes [G-CP]:
Camera, 35mm SLR (Nikon FG-20).....NIKON 1708
Lens Zoom, 28-85mm.....NIKON 1443
Lens, Zoom, 80-200mm.....NIKON 1484
Flash, Electronic (SB-15).....NIKON 4515
Camera, 35mm, Auto (Nikon one-touch).....NIKON 1804
Case, Camera and Accessory.....(local purchase)

Photo ID Kit [G-MPS]: To be developed.

Investigations Equipment, includes [G-OIS]:
Cases, Waterproof (3) each containing:.....(local purchase)
Camera, 35mm SLR Auto Focus, Motor Drv ....(local purchase)
Lens, 55mm.....(local purchase)
Lens, Zoom, 80-200mm.....(local purchase)
Flash, Electronic.....(local purchase)
Tripod and accessories.....(local purchase)
Recorder, Voice, Cassette Compact.....(local purchase)
Spare Cassettes.....(local purchase)
Kit, Fingerprint, Latent.....DACTEK PWS-120
Binoculars, 7x50mm (2 ea.).....(local purchase)
Flashlight, Black Metal (4 ea.).....(local purchase)
Flashlight, C-cell Batteries and Lamps.....(local purchase)
Sound Detector, Parabolic w/Recorder.....(local purchase)
Evidence Tags and Envelopes (100).....(local purchase)
Kit, Narcotics Test.....6630-01-025-2582

Weapons Case, Waterproof (3).....(local purchase)
each capable of being bolted to vehicle and containing:)
Flexcuffs (100).....(local purchase)
Handcuffs (2 ea).....8465-00-242-7860

11.(cont)Personal Clothing, includes 2 each of the following:
Coverall, Dark Color.....(local purchase)
Cap.....(local purchase)
Boots.....(local purchase)

EMT Kit [G-K]: See COMDTINST 6700.10 (series).

12. Administrative Equipment [G-PIM]:

GSA Approved Safe 2 Drawer.....7110-00-920-9342
GSA Approved Safe 4 Drawer.....7110-00-920-9343
Filing Cabinet, 5 Drawer.....7100-00-497-2370
Locker, Storage.....7125-00-764-6129
Bookcase, 3 Shelf.....7110-00-601-9822
Table 7110-00-113-0521
Desk, Double Pedestal.(flat top).....7110-00-149-1631
Chair, Office, Swivel.....7110-01-167-1131
Typewriter, including Stand.....(local purchase)
Stand, Office Machine.....7110-00-601-9849
Calculator.....(local purchase)
Copier.....(local purchase

Plotting Equipment, includes [G-NRS]:
Local Area Charts (Planner Determined).....(from DMA)
Compass.....6675-00-641-3207
Dividers.....6675-00-641-3512
Plotter, Weems, Rolling.....
Pencils (dz) (3 ea.).....7510-00-286-5755
Eraser (dz).....7510-00-323-8788
Slide Rule, Nautical.....

13. Vehicles:
Sedan GSA Contract
Pickup, 3/4 ton w/towing.....GSA Contract
Van, 9 Passenger.....GSA Contract
Other Vehicle.....GSA Contract
Safety Equipment included with each vehicle:
First Aid Kit.....6546-00-526-1903
Reflectors (2 sets).....(local purchase)
Extinguisher, Fire, Dry Chemical.....
Kit, Tool, Automotive.....5120-00-925-7385

14. NBC/CBR Equipment [G-ENE]:
Individual, includes:
Carrier, Field, Chemical.....4240-00-933-2533
Clothing, Outfit, Chemical.....
Cover, Helmet, Chem Prot.....8415-01-111-9028
Filter, Element Set.....4240-00-165-5026
Footwear, Covers, Chemical.....8430-01-118-8172
Gloves, Set, Chemical.....
Hood, Chemical-Biological.....
Mask, Chemical-Biological.....
Suit, Chemical Protective.....

15. Marine Environmental Response Equipment [G-MER]:

Pollution Investigator, containing:
- Briefcase, Expandable.....8460-00-132-9020
- Detector, Model S105.....
- Charger, battery.....
- Case, Carrying.....
- Aspirator Assy, Hand.....
- Hose, 15 ft.....
- Calibration Kit.....
- Draeger Tubes.....(local purchase)

Oil Sample Kit, containing:
- Sample Bottles, Oil.....(local purchase)
- Gloves, Disp. Rubber (med).....8415-01-013-7382
- Camera, 35mm.....(local purchase)
- Case, Camera and Accessories.....(local purchase)

Personal Protection Equipment, containing:
- Splash Gear, Jacket.....
- Splash Gear, Trousers.....
- Shield, FACE.....4210-00-5422048
- Harness.....
- Life Line.....

First Aid Response, containing:
- Pads, Absorbent.....(local purchase)
- Boom, Absorbent.....(local purchase)
- Boom, harbor (3 ea. x 50 ft).....(local purchase)
- Anchor, Boom.....(local purchase)
- Line (200' x 3/8").....(local purchase)

EQUIPMENT SUMMARY TABLES

1. The following pages have equipment requirement planning factors for several of the most used force elements in Chapter 4. These planning factors are usually determined per team (TM), although some are based on quantities of other equipment or per person. There are several types of entries, as described below:

   a. 1 per TM - When a factor is written without any notations or parentheses, then it is a standard planning factor.

   b. (1 per TM) - Parentheses also indicate a standard factor, but one that may not apply to all locations. For example, cold weather or extreme cold weather clothing probably won't be needed for forces operating in Key West, but may be considered mandatory for forces on the Great Lakes.

   c. * - An asterisk indicates a factor for which there is no service-wide standard. Estimate the unit requirements based upon local needs, inventory.

   d. (1 per TM)* - Parentheses and an asterisk indicate a probable factor, but one that can be omitted entirely, or changed depending upon local needs.

   e. $ - The dollar sign indicates that only a dollar figure (for shortages) is required.

2. The following planning factors represent a basic service-wide standard, or best estimate. Commanders shall consider, each factor versus local needs, and come up with local modified factors if necessary. Identify and justify all deviations from the published factors in the operation plan and other support documentation.

3. For format purposes, several line items are grouped together under the heading "Professional Equipment".

4. Blank pages are included at the back, to be copied for local use.

5. Also included are blank pages for use in adjusting the force element equipment requirements to reflect increases for sizing, maintenance, and relief allowance needs. First, determine the force element equipment needs. Then, multiply by the appropriate percentage. Finally, add the sizing, maintenance, and relief allowance to the original equipment requirements to determine the total equipment needs.

Force Element	Boat Crew 4 Pers, 24 Hour Coverage	Boat Crew, 4 Pers, Patrol From Base
SMALL BOATS (w/outfit)		
SRB Type		1 per 3 Teams (1)
UTB Type	2 per 3 Teams (1)	1 per 3 Teams (1)
PWB Type	2 per 3 Teams (1)	1 per 3 Teams (1)
ANB Type		
UTL Type	2 per 3 Teams (1)	1 per 3 Teams (1)
Other Boat		
ORDNANCE EQUIPMENT		
Pistol	2 per Boat	2 per Boat
Submachinegun		
Rifle	1 per Team	1 per Team
Shotgun	1 per Boat	1 per Boat
Machinegun, M60	1 per Boat (2)	1 per Boat (2)
Body Armor	4 per Team	4 per Team
Web Gear (Ind.)	4 per Team	4 per Team
Weapons Container		
COMMS EQUIPMENT		
VHF Hand Held. DES	(1 per Boat)*	(1 per Boat)*
VHF H-H, DES, Int. Safe		
VHF Bracket Mount	2 per Boat	1 per Boat
VHF Bracket Mnt. DES	1 per Boat	1 per Boat
Pager Display		
Signal Device, Dis.		
Cellular Tele, Veh		
Cellular Tele, Port		
FOUL WX/PERSONAL GEAR		
Basic	4 per Team	4 per Team
Boat	4 per Team	4 per Team
Cold Weather	(4 per Team)	(4 per Team)
Extreme Cold Wx	(4 per Team)	(4 per Team)
SURVIVAL EQUIP, BOAT	4 per Boat	4 per Boat
PILOTING EQUIPMENT	1 per Boat	1 per Boat
ANTI-EXP Coveralls/Dry suits		
Coveralls, Anti-Exp.	(4 per Team)	(4 per Team)
Dry Suit		
VEHICLES (w/sfty equip)		
Sedan		
Pickup, 3/4 ton w/tow		1 per SKB

(1) Select most appropriate type for operations/environment, See PARA 5.D.1(7)
(2) Only for boats equipped for M-60

Force Element	Admin Support, Personnel	Logistics Support
ADP EQUIPMENT		
Standard Workstation	*$	*$
Computer, Laptop	*$	*$
Other Terminal	*$	*$
PROFESSIONAL EQUIPMENT		
Electrical Equip		
Electronic Equip		
Engineering Equip		
Vehicle Tool Kit		
Vessel Insp Kit		
Marine Invest. Kit		
Subsistence Equip.		
Photographic Equip		
Investigation Kit		
EMT Kit		
Photo ID Kit*		
ADMIN EQUIP.		
Safe, 2 Drawer		
Safe. 4 Drawer		
File Cabinet, 5 Drw		
Locker, Storage		
Bookcase, 3 Shelf		
Table		
Desk, Dble Pedestal	(1 per Pers)*	(1 per Pers)*
Chair, Office	(1 per Pers)*	(1 per Pers)*
Typewriter	(1 per Pers)*	(1 per Pers)*
Calculator		(1 per Pers)*
Copier		
FIRE FIGHTING EQUIP.		
Basic		
Firefighter		
RESPIRATORY EQUIP.		
EEBA		
SCBA		
NBC/CBR Equipment		
MEP EQUIPMENT		
Pollution Inv Kit		
Pers Protect Equip		
First Aid Resp. Kit		

Force Element	Boat Crew 3 Pers, 24 Hour Coverage	Boat Crew, 3 Pers, Patrol From Base
SMALL BOATS (w/outfit)		
SRB Type		
UTB Type		
PWB Type		
ANB Type		(3)
UTL Type	2 per 3 Teams	1 per 3 Teams
Other Boat		
ORDNANCE EQUIPMENT		
Pistol	1 per Boat	1 per Boat
Submachinegun		
Rifle	1 per Boat	1 per Boat
Shotgun	1 per Boat	1 per Boat
Machinegun, M60		
Body Armor	3 per Boat	3 per Boat
Web Gear (Ind.)	3 per Boat	3 per Boat
Weapons Container		
COMMS EQUIPMENT		
VHF Hand Held. DES	(1 per Boat)*	(1 per Boat)*
VHF H-H, DES, Int. Safe		
VHF Bracket Mount		
VHF Bracket Mnt. DES	1 per Boat	1 per Boat
Pager Display		
Signal Device, Dis.		
Cellular Tele, Veh		
Cellular Tele, Port		
FOUL WX/PERSONAL GEAR		
Basic	3 per Team	3 per Team
Boat	3 per Team	3 per Team
Cold Weather	(3 per Team)	(3 per Team)
Extreme Cold Wx	(3 per Team)	(3 per Team)
SURVIVAL EQUIP, BOAT	3 per Boat	3 per Boat
PILOTING EQUIPMENT	1 per Boat	1 per Boat
EXPOSURE/WET SUITS		
Coveralls, Anti-Exp.	(3 per Team)	(3 per Team)
Dry Suit		
VEHICLES (w/sfty equip)		
Sedan		
Pickup, 3/4 ton w/tow	1 per SKB	1 per SKB

(1) Select most appropriate type for operations/environment, See PARA 5.D.1(7)
(2) Only for boats equipped for M-60

Force Element	Command & Control, Officer or Enlisted	General Support Team
ADP EQUIPMENT		
Standard Workstation	*$	
Computer, Laptop	*$	
Other Terminal	*$	
PROFESSIONAL EQUIPMENT		
Electrical Equip		
Electronic Equip		
Engineering Equip		
Vehicle Tool Kit		
Vessel Insp Kit		
Marine Invest. Kit		
Subsistence Equip.		
Photographic Equip		
Investigation Kit		
EMT Kit		
Photo ID Kit*		
ADMIN EQUIP.		
Safe, 2 Drawer		
Safe. 4 Drawer		
File Cabinet, 5 Drw		
Locker, Storage	(1 per Pers)*	
Bookcase, 3 Shelf		
Table		
Desk, Dble Pedestal	(1 per Pers)*	
Chair, Office	(1 per Pers)*	
Typewriter		
Calculator		
Copier		
ORDNANCE EQUIPMENT		
Pistol	(1 per Pers)	
Submachinegun		
Rifle		
Shotgun		
Body Armor	(1 per Pers)	
Web Gear (Ind.)	1 per Pers	
Weapons Container		
FOUL WX/PERSONAL GEAR		
Basic	(1 per Pers)	3 per Team
Boat	(1 per Pers)	
Cold Weather	(1 per Pers)	(3 per Team)
Extreme Cold Wx	(1 per Pers)	(3 per Team)

Force Element		
SMALL BOATS (w/outfit)		
SRB Type		
UTB Type		
PWB Type		
ANB Type		
UTL Type		
Other Boat		
ORDNANCE EQUIPMENT		
Pistol		
Submachinegun		
Rifle		
Shotgun		
Machinegun, M60		
Body Armor		
Web Gear (Ind.)		
Weapons Container		
COMMS EQUIPMENT		
VHF Hand Held. DES		
VHF H-H, DES, Int. Safe		
VHF Bracket Mount		
VHF Bracket Mnt. DES		
Pager Display		
Signal Device, Dis.		
Cellular Tele, Veh		
Cellular Tele, Port		
FOUL WX/PERSONAL GEAR		
Basic		
Boat		
Cold Weather		
Extreme Cold Wx		
SURVIVAL EQUIP, BOAT		
PILOTING EQUIPMENT		
EXPOSURE/WET SUITS		
Coveralls, Anti-Exp.		
Dry Suit		
VEHICLES (w/sfty equip)		
Sedan		
Pickup, 3/4 ton w/tow		

Force Element		
ADP EQUIPMENT		
Standard Workstation		
Computer, Laptop		
Other Terminal		
PROFESSIONAL EQUIPMENT		
Electrical Equip		
Electronic Equip		
Engineering Equip		
Vehicle Tool Kit		
Vessel Insp Kit		
Marine Invest. Kit		
Subsistence Equip.		
Photographic Equip		
Investigation Kit		
EMT Kit		
Photo ID Kit*		
ADMIN EQUIP.		
Safe, 2 Drawer		
Safe. 4 Drawer		
File Cabinet, 5 Drw		
Locker, Storage		
Bookcase, 3 Shelf		
Table		
Desk, Dble Pedestal		
Chair, Office		
Typewriter		
Calculator		
Copier		
FIRE FIGHTING EQUIP.		
Basic		
Firefighter		
RESPIRATORY EQUIP.		
EEBA		
SCBA		
NBC/CBR Equipment		
MEP EQUIPMENT		
Pollution Inv Kit		
Pers Protect Equip		
First Aid Resp. Kit		

Force Element	Cutter Augment. Detail	Sizing/Maint/ Relief Allow.	
SMALL BOATS (w/outfit)			
SRB Type		20%	
UTB Type		20%	
PWB Type		20%	
ANB Type		20%	
UTL Type		20%	
Other Boat			
ORDNANCE EQUIPMENT			
Pistol		10%	
Submachinegun		10%	
Rifle		10%	
Shotgun		10%	
Machinegun, M60		10%	
Body Armor		20%	
Web Gear (Ind.)		10%	
Weapons Container			
COMMS EQUIPMENT			
VHF Hand Held. DES		10%	
VHF H-H, DES, Int. Safe		10%	
VHF Bracket Mount		10%	
VHF Bracket Mnt. DES		10%	
Pager Display			
Signal Device, Dis.			
Cellular Tele, Veh			
Cellular Tele, Port			
FOUL WX/PERSONAL GEAR			
Basic	1 per indiv.	20%	
Boat	1 per indiv	20%	
Cold Weather	(1 per indiv)	(20%)	
Extreme Cold Wx	(1 per indiv.)	(20%)	
SURVIVAL EQUIP, BOAT		10%	
PILOTING EQUIPMENT		10%	
EXPOSURE/WET SUITS			
Coveralls, Anti-Exp.		20%	
Dry Suit		20%	
VEHICLES (w/sfty equip)			
Sedan		20%	
Pickup, 3/4 ton w/tow		20%	

Force Element	Cutter Augment. Detail	Sizing/Maint/ Relief Allow.	
ADP EQUIPMENT			
Standard Workstation			
Computer, Laptop			
Other Terminal			
PROFESSIONAL EQUIPMENT			
Electrical Equip			
Electronic Equip			
Engineering Equip			
Vehicle Tool Kit			
Vessel Insp Kit			
Marine Invest. Kit			
Subsistence Equip.			
Photographic Equip			
Investigation Kit			
EMT Kit			
Photo ID Kit*			
ADMIN EQUIP.			
Safe, 2 Drawer			
Safe. 4 Drawer			
File Cabinet, 5 Drw			
Locker, Storage			
Bookcase, 3 Shelf			
Table			
Desk, Dble Pedestal			
Chair, Office			
Typewriter			
Calculator			
Copier			
FIRE FIGHTING EQUIP.			
Basic		20%	
Firefighter		20%	
RESPIRATORY EQUIP.			
EEBA		20%	
SCBA		20%	
NBC/CBR Equipment		20%	
MEP EQUIPMENT			
Pollution Inv Kit			
Pers Protect Equip		20%	

ACRONYMS

AMC	Air Mobility Command
AUGDTL	Augmentation Detail
AVDET	Aviation Squadrons or Detachments
CAC	Crisis Action Center
CAT	Crisis Action Team
CIC	Combat Information Center
CINC	Commander in Chief
COMDT	Commandant
COMDTINST	Commandant Instruction
CPAL	Contingency Personnel Allowance List
DOD	Department of Transportation
HQPC	Headquarters Planning Coordination
IAW	In Accordance With
JCS	Joint Chiefs of Staff
JOPES	Joint Operation Planningand Execution System
JRCC	Joint Rescue and Coordination Center
KAPP	Key Asset Protection Program
LFF	Logistics Factors File
LSMP	Logistics Support and Mobilization Plan
MARAD	Maritime Administration
MAT	Maintenance Augmentation Team
MLC	Maintenance and Logistics Command

MMSP	Manpower Mobilization and Support Plan
MSU	Mobile Support Unit
OCONUS	Outside the Continental United States
OPFAC	Operating Facility Level
OPLAN	Operating Plan
OPORD	Operation Order
PAL	Personnel Allowance List
POE	Projected Operational Environment
POL	Petroleum Oil Lubricates
PPBS	Planning Program and Budgeting System
PSU	Port Security Unit
RCC	Rescue and Coordination Center
RCP	Resource Change Proposal
RRF	Ready Reserve Force
REC	Regional Examination Center
ROC	Required Operational Capability
TCC	Transportable Communication Center
TPFDD	Time-Phased Force Deployment Data
TPTRL	Time-Phased Transportation Requirements List
UTC	Unit Type Codes
WHEC	High Endurance Cutter
WLB	Buoy Tender Seagoing
WMEC	Medium Endurance Cutter

WPB	Patrol Boat
WTGB	Icebreaking Tug
WWMCCS	Worldwide Military Command and Control System